

















<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition					
	AITR	1392	8HG	WC	MH	CTD					

**Test Group: AITR1392-8HG-WC-MH-CTD**

<b>Material:</b>	<b>MTM45-1/GF0103-35%RW</b>	Normalization:	Cured Ply Thickness:	0.01	#Plies:	12	<b>ACG, Inc.</b> <b>Material &amp; Process</b> <b>Laboratory Report</b>
Test Type:	Warp Compression	Condition:	CTD				
Test Method:	MP1114 (ASTMD6641)	Modulus/Poisson's Range:	Chord 0.1% to 0.3%				

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi		Modulus, Msi		Poisson's Ratio
							Measured	Normalized	Measured	Normalized	
AITR1392-8HG-WC-A-MH1-CTD-1	5.508	0.5070	0.1120	0.0093	6490.81	BGB	114.307	106.687	4.22	3.94	0.150
AITR1392-8HG-WC-A-MH1-CTD-2	5.507	0.5070	0.1140	0.0095	5541.06	HGM	95.869	91.076	4.70	4.46	0.161
AITR1392-8HG-WC-A-MH1-CTD-3	5.507	0.5060	0.1170	0.0098	6092.48	BGM	102.910	100.337	4.19	4.09	0.147
AITR1392-8HG-WC-A-MH1-CTD-4	5.506	0.5060	0.1140	0.0095	NT				NT		NT
AITR1392-8HG-WC-A-MH2-CTD-1	5.509	0.5000	0.1190	0.0099	6302.26	BGM	105.920	105.038	4.96	4.92	GE
AITR1392-8HG-WC-A-MH2-CTD-2	5.507	0.5080	0.1190	0.0099	6456.85	BGM	106.810	105.919	4.22	4.18	0.177
AITR1392-8HG-WC-A-MH2-CTD-3	5.508	0.5080	0.1200	0.0100	6902.60	BGM	113.232	113.232	4.28	4.28	0.154
AITR1392-8HG-WC-A-MH2-CTD-4	5.507	0.5080	0.1200	0.0100	NT				NT		NT
AITR1392-8HG-WC-B-MH1-CTD-1	5.508	0.5060	0.1150	0.0096	6451.08	BGM	110.862	106.243	4.85	4.64	0.121
AITR1392-8HG-WC-B-MH1-CTD-2	5.510	0.5060	0.1180	0.0098	6340.14	BGM	106.186	104.416	4.06	3.99	0.152
AITR1392-8HG-WC-B-MH1-CTD-3	5.509	0.5060	0.1200	0.0100	6063.04	BGM	99.852	99.852	4.24	4.24	0.155
AITR1392-8HG-WC-B-MH1-CTD-4	5.509	0.5060	0.1180	0.0098	NT				NT		NT
AITR1392-8HG-WC-B-MH2-CTD-1	5.507	0.5060	0.1210	0.0101	6775.75	HGM	110.668	111.590	3.73	3.76	0.161
AITR1392-8HG-WC-B-MH2-CTD-2	5.507	0.5050	0.1200	0.0100	6273.06	BGM	103.516	103.516	4.27	4.27	0.153
AITR1392-8HG-WC-B-MH2-CTD-3	5.509	0.5050	0.1140	0.0095	7167.42	HGM	124.499	118.274	4.30	4.09	0.151
AITR1392-8HG-WC-B-MH2-CTD-4	5.510	0.5050	0.1200	0.0100	NT				NT		NT
AITR1392-8HG-WC-C-MH1-CTD-1	5.507	0.5070	0.1210	0.0101	6635.66	BGM	108.166	109.067	4.25	4.29	0.161
AITR1392-8HG-WC-C-MH1-CTD-2	5.508	0.5070	0.1140	0.0095	5854.04	BGM	101.285	96.220	4.54	4.32	0.146
AITR1392-8HG-WC-C-MH1-CTD-3	5.509	0.5080	0.1200	0.0100	6406.30	BGM	105.090	105.090	4.79	4.79	GE
AITR1392-8HG-WC-C-MH1-CTD-4	5.509	0.5070	0.1210	0.0101	NT				NT		NT
AITR1392-8HG-WC-C-MH2-CTD-1	5.506	0.5090	0.1110	0.0093	6094.08	BGM	107.862	99.772	4.37	4.05	0.146
AITR1392-8HG-WC-C-MH2-CTD-2	5.507	0.5090	0.1200	0.0100	5762.49	BGB	94.343	94.343	5.14	5.14	0.152
AITR1392-8HG-WC-C-MH2-CTD-3	5.506	0.5100	0.1190	0.0099	6319.62	BGT	104.129	103.262	4.07	4.04	0.165
AITR1392-8HG-WC-C-MH2-CTD-4	5.508	0.5090	0.1190	0.0099	NT				NT		NT
Minimum	5.5060	0.5000	0.1110	0.0093	5541.06		94.343	91.076	3.731	3.762	0.1215
Maximum	5.5100	0.5100	0.1210	0.0101	7167.42		124.499	118.274	5.136	5.136	0.1767
Average	5.5078	0.5067	0.1178	0.0098	6329.37		106.417	104.108	4.399	4.304	0.1533
Standard Deviation	0.0012	0.0020	0.0031	0.0003	401.63		7.001	6.688	0.359	0.362	0.0117
Coefficient of Variation (%)	0.02	0.39	2.61	2.61	6.35		6.58	6.42	8.16	8.41	7.63
No. Specimens	24	24	24	24	18		18	18	18	18	16

**Notes:**  
NT=Not Tested  
NR=No Result  
GE=Gage Error  
FM=Failure Mode Unacceptable

<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	8HG	WC	MH	RTD						

**Test Group: AITR1392-8HG-WC-MH-RTD**

<b>Material:</b>	<b>MTM45-1/GF0103-35%RW</b>	Normalization:	Cured Ply Thickness:	0.01	#Plies:	12	<b>ACG, Inc. Material &amp; Process Laboratory Report</b>
Test Type:	Warp Compression	Condition:	RTD				
Test Method:	MP1114 (ASTMD6641)	Modulus/Poisson's Range:	Chord 0.1% to 0.3%				

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi		Modulus, Msi		Poisson's Ratio
							Measured	Normalized	Measured	Normalized	
AITR1392-8HG-WC-A-MH1-RTD-1	5.500	0.5066	0.1146	0.0096	4762.00	BGT	82.024	78.333	3.49	3.33	0.121
AITR1392-8HG-WC-A-MH1-RTD-2	5.500	0.5078	0.1177	0.0098	4894.00	BGT	81.883	80.314	3.72	3.65	0.134
AITR1392-8HG-WC-A-MH1-RTD-3	5.500	0.5073	0.1174	0.0098	4819.00	BGT	80.914	79.161	3.69	3.61	0.128
AITR1392-8HG-WC-A-MH1-RTD-4					NT				NT		NT
AITR1392-8HG-WC-A-MH2-RTD-1	5.500	0.5077	0.1176	0.0098	5075.00	BGB	85.001	83.301	3.62	3.55	0.131
AITR1392-8HG-WC-A-MH2-RTD-2	5.500	0.5084	0.1157	0.0096	4776.00	HGM	81.194	78.285	3.47	3.35	0.135
AITR1392-8HG-WC-A-MH2-RTD-3	5.500	0.5041	0.1098	0.0092	4304.00	BGM	77.759	71.150	4.03	3.69	0.122
AITR1392-8HG-WC-A-MH2-RTD-4					NT				NT		NT
AITR1392-8HG-WC-B-MH1-RTD-1	5.500	0.5061	0.1156	0.0096	4828.00	BGT	82.523	79.497	3.43	3.31	0.125
AITR1392-8HG-WC-B-MH1-RTD-2	5.500	0.5067	0.1193	0.0099	5094.00	BGB	84.269	83.777	3.68	3.65	0.130
AITR1392-8HG-WC-B-MH1-RTD-3	5.500	0.5064	0.1157	0.0096	4567.00	BGT	77.948	75.155	3.58	3.45	0.123
AITR1392-8HG-WC-B-MH1-RTD-4					NT				NT		NT
AITR1392-8HG-WC-B-MH2-RTD-1	5.500	0.5057	0.1184	0.0099	5305.00	BGT	88.601	87.420	3.56	3.51	0.119
AITR1392-8HG-WC-B-MH2-RTD-2	5.500	0.5084	0.1170	0.0098	5358.00	HGM	90.076	87.825	GE		GE
AITR1392-8HG-WC-B-MH2-RTD-3	5.500	0.5073	0.1213	0.0101	5275.00	BGB	85.723	86.652	3.32	3.36	0.108
AITR1392-8HG-WC-B-MH2-RTD-4					NT				NT		NT
AITR1392-8HG-WC-C-MH1-RTD-1	5.500	0.5080	0.1201	0.0100	4728.00	HGM	77.494	77.559	3.45	3.45	0.119
AITR1392-8HG-WC-C-MH1-RTD-2	5.500	0.5060	0.1189	0.0099	4609.00	BGM	76.608	75.906	3.53	3.50	0.124
AITR1392-8HG-WC-C-MH1-RTD-3	5.500	0.5060	0.1217	0.0101	5159.00	BGM	83.777	84.964	3.40	3.45	0.118
AITR1392-8HG-WC-C-MH1-RTD-4					NT				NT		NT
AITR1392-8HG-WC-C-MH2-RTD-1	5.500	0.5070	0.1214	0.0101	5346.00	BGM	86.856	87.870	3.36	3.40	0.125
AITR1392-8HG-WC-C-MH2-RTD-2	5.500	0.5070	0.1207	0.0101	5008.00	BGM	81.837	82.314	3.34	3.36	0.112
AITR1392-8HG-WC-C-MH2-RTD-3	5.500	0.5080	0.1138	0.0095	4927.00	BGB	85.227	80.823	3.79	3.59	0.120
AITR1392-8HG-WC-C-MH2-RTD-4					NT				NT		NT
Minimum	5.5000	0.5041	0.1098	0.0092	4304.00		76.608	71.150	3.319	3.309	0.1082
Maximum	5.5000	0.5084	0.1217	0.0101	5358.00		90.076	87.870	4.034	3.691	0.1350
Average	5.5000	0.5069	0.1176	0.0098	4935.22		82.762	81.128	3.556	3.483	0.1232
Standard Deviation	0.0000	0.0011	0.0031	0.0003	293.59		3.831	4.769	0.185	0.124	0.0071
Coefficient of Variation (%)	0.00	0.22	2.62	2.62	5.95		4.63	5.88	5.20	3.56	5.76
No. Specimens	18	18	18	18	18		18	18	17	17	17

**Notes:**  
NT=Not Tested  
NR=No Result  
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FM=Failure Mode Unacceptable



<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition					
	AITR	1392	8HG	WC	MH	ETW2					

**Test Group: AITR1392-8HG-WC-MH-ETW2**

<b>Material:</b>	<b>MTM45-1/GF0103-35%RW</b>	Normalization:	Cured Ply Thickness:	0.01	#Plies:	12	<b>ACG, Inc. Material &amp; Process Laboratory Report</b>
Test Type:	Warp Compression	Condition:	ETW2				
Test Method:	MP1114 (ASTMD6641)	Modulus/Poisson's Range:	Chord 0.1% to 0.3%				

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi		Modulus, Msi		Poisson's Ratio
							Measured	Normalized	Measured	Normalized	
AITR1392-8HG-WC-A-MH1-ETW2-1	5.513	0.5070	0.1100	0.0092	2329.00	HGM	41.761	38.281	GE		GE
AITR1392-8HG-WC-A-MH1-ETW2-2	5.513	0.5080	0.1180	0.0098	2670.00	HGM	44.542	43.799	GE		GE
AITR1392-8HG-WC-A-MH1-ETW2-3	5.514	0.5070	0.1180	0.0098	2594.00	BGM	43.359	42.636	GE		GE
AITR1392-8HG-WC-A-MH1-ETW2-4	5.513	0.5080	0.1180	0.0098	NT				NT		NT
AITR1392-8HG-WC-A-MH2-ETW2-1	5.513	0.5080	0.1220	0.0102	NT				NT		NT
AITR1392-8HG-WC-A-MH2-ETW2-2	5.512	0.5030	0.1190	0.0099	2571.00	HGM	42.952	42.594	GE		GE
AITR1392-8HG-WC-A-MH2-ETW2-3	5.516	0.5030	0.1170	0.0098	2088.00	HGB	35.479	34.592	GE		GE
AITR1392-8HG-WC-A-MH2-ETW2-4	5.514	0.5000	0.1220	0.0102	2390.00	HGT	39.180	39.833	GE		GE
AITR1392-8HG-WC-B-MH1-ETW2-1	5.512	0.5060	0.1180	0.0098	2345.00	BGM	39.274	38.620	GE		GE
AITR1392-8HG-WC-B-MH1-ETW2-2	5.513	0.5060	0.1150	0.0096	2157.00	HGM	37.068	35.524	GE		GE
AITR1392-8HG-WC-B-MH1-ETW2-3	5.512	0.5060	0.1180	0.0098	2483.00	HGM	41.586	40.893	GE		GE
AITR1392-8HG-WC-B-MH1-ETW2-4	5.493	0.5000	0.1170	0.0098	NT				NT		NT
AITR1392-8HG-WC-B-MH2-ETW2-1	5.510	0.5070	0.1200	0.0100	2748.00	BGM	45.168	45.168	GE		GE
AITR1392-8HG-WC-B-MH2-ETW2-2	5.514	0.5060	0.1200	0.0100	2870.00	BGM	47.266	47.266	GE		GE
AITR1392-8HG-WC-B-MH2-ETW2-3	5.514	0.5070	0.1200	0.0100	3101.00	HGM	50.970	50.970	GE		GE
AITR1392-8HG-WC-B-MH2-ETW2-4	5.512	0.5060	0.1200	0.0100	NT				NT		NT
AITR1392-8HG-WC-C-MH1-ETW2-1	5.512	0.5070	0.1150	0.0096	2161.00	BGM	37.064	35.519	GE		GE
AITR1392-8HG-WC-C-MH1-ETW2-2	5.509	0.5070	0.1210	0.0101	2362.00	HGT	38.502	38.823	GE		GE
AITR1392-8HG-WC-C-MH1-ETW2-3	5.511	0.5070	0.1140	0.0095	2340.00	HGB	40.486	38.462	GE		GE
AITR1392-8HG-WC-C-MH1-ETW2-4	5.505	0.5070	0.1170	0.0098	NT				NT		NT
AITR1392-8HG-WC-C-MH2-ETW2-1	5.511	0.5090	0.1200	0.0100	2349.00	HGM	38.458	38.458	GE		GE
AITR1392-8HG-WC-C-MH2-ETW2-2	5.515	0.5100	0.1190	0.0099	2389.00	BGM	39.364	39.036	GE		GE
AITR1392-8HG-WC-C-MH2-ETW2-3	5.511	0.5090	0.1200	0.0100	2267.00	BGM	37.115	37.115	GE		GE
AITR1392-8HG-WC-C-MH2-ETW2-4	5.510	0.5090	0.1160	0.0097	NT				NT		NT
Minimum	5.4930	0.5000	0.1100	0.0092	2088.00		35.479	34.592			
Maximum	5.5160	0.5100	0.1220	0.0102	3101.00		50.970	50.970			
Average	5.5113	0.5064	0.1181	0.0098	2456.33		41.089	40.422			
Standard Deviation	0.0045	0.0026	0.0027	0.0002	262.35		4.038	4.306			
Coefficient of Variation (%)	0.08	0.50	2.31	2.31	10.68		9.83	10.65			
No. Specimens	24	24	24	24	18		18	18			

**Notes:**  
NT=Not Tested  
NR=No Result  
GE=Gage Error  
FM=Failure Mode Unacceptable







<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition					
	AITR	1392	8HG	FC	MH	ETW					

**Test Group: AITR1392-8HG-FC-MH-ETW**

<b>Material:</b>	<b>MTM45-1/GF0103-35%RW</b>	Normalization:	Cured Ply Thickness:	0.01	#Plies:	12	<b>Retest Data</b>
Test Type:	Fill Compression	Condition:	ETW				
Test Method:	MP1114 (ASTMD6641)	Modulus/Poisson's Range:	Chord 0.1% to 0.3%				

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi		Modulus, Msi		Poisson's Ratio
							Measured	Normalized	Measured	Normalized	
NTP AITR1392-CYT-8HG-NIAR-FC-A-MH1-1-ETW-1	5.502	0.5010	0.1268	0.0106	2795.74	HAB	44.006	46.500	3.101	3.28	
NTP AITR1392-CYT-8HG-NIAR-FC-A-MH1-1-ETW-2	5.502	0.5012	0.1272	0.0106	2751.88	HAT	43.180	45.753	3.702	3.92	
NTP AITR1392-CYT-8HG-NIAR-FC-A-MH1-1-ETW-3	5.503	0.5014	0.1270	0.0106	2894.49	HAT	45.448	48.105	NR	NR	
NTP AITR1392-CYT-8HG-NIAR-FC-A-MH1-1-ETW-4	5.502	0.5013	0.1272	0.0106	3031.78	BGM	47.535	50.400	3.28	3.48	
NTP AITR1392-CYT-8HG-NIAR-FC-A-MH2-1-ETW-1	5.502	0.5013	0.1260	0.0105	3043.49	HAT	48.200	50.597	3.57	3.75	
NTP AITR1392-CYT-8HG-NIAR-FC-A-MH2-1-ETW-2	5.502	0.5010	0.1264	0.0105	3143.31	HAB	49.640	52.280	3.41	3.59	
NTP AITR1392-CYT-8HG-NIAR-FC-A-MH2-1-ETW-3	5.502	0.5013	0.1263	0.0105	2850.33	BGM	45.007	47.382	3.35	3.53	
NTP AITR1392-CYT-8HG-NIAR-FC-A-MH2-1-ETW-4	5.501	0.5012	0.1266	0.0105	3153.74	M(H,B)AT	49.716	52.436	3.47	3.66	
NTP AITR1392-CYT-8HG-NIAR-FC-B-MH1-1-ETW-1	5.497	0.5017	0.1211	0.0101	2585.14	HAB	42.564	42.937	3.39	3.42	
NTP AITR1392-CYT-8HG-NIAR-FC-B-MH1-1-ETW-2	5.497	0.5016	0.1207	0.0101	2630.08	BGM	43.443	43.696	3.36	3.38	
NTP AITR1392-CYT-8HG-NIAR-FC-B-MH1-1-ETW-3	5.498	0.5014	0.1211	0.0101	2525.51	HAB	41.587	41.974	3.38	3.41	
NTP AITR1392-CYT-8HG-NIAR-FC-B-MH1-1-ETW-4	5.498	0.5015	0.1214	0.0101	2881.72	M(B,H)GM	47.323	47.882	3.47	3.51	
NTP AITR1392-CYT-8HG-NIAR-FC-B-MH2-1-ETW-1	5.501	0.4986	0.1192	0.0099	2675.11	HAB	45.028	44.715	NR	NR	
NTP AITR1392-CYT-8HG-NIAR-FC-B-MH2-1-ETW-2	5.500	0.4990	0.1197	0.0100	2704.48	BGM	45.300	45.168	3.49	3.48	
NTP AITR1392-CYT-8HG-NIAR-FC-B-MH2-1-ETW-3	5.500	0.4986	0.1202	0.0100	2782.66	HGM	46.440	46.511	3.49	3.49	
NTP AITR1392-CYT-8HG-NIAR-FC-B-MH2-1-ETW-4	5.500	0.4988	0.1202	0.0100	2608.46	M(B,H)GM	43.509	43.576	3.35	3.36	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH1-1-ETW-1	5.501	0.4990	0.1220	0.0102	2695.82	HAT	44.287	45.019	NR	NR	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH1-1-ETW-2	5.500	0.4991	0.1224	0.0102	2474.13	HGM	40.497	41.313	NR	NR	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH1-1-ETW-3	5.500	0.4990	0.1228	0.0102	2506.87	BAT	40.909	41.863	3.14	3.22	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH1-1-ETW-4	5.500	0.4991	0.1224	0.0102	2608.06	BGM	42.704	43.546	3.39	3.45	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH1-1-ETW2-4*	5.498	0.4990	0.1225	0.0102	2701.58	HGM	44.199	45.120	3.14	3.20	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH2-1-ETW-1	5.501	0.4980	0.1221	0.0102	2740.74	BGM, HGM	45.089	45.866	NR	NR	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH2-1-ETW-2	5.501	0.4978	0.1223	0.0102	2640.00	HGM	43.375	44.195	3.18	3.24	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH2-1-ETW-3	5.500	0.4981	0.1211	0.0101	2479.87	BGM	41.118	41.489	NR	NR	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH2-1-ETW-4	5.503	0.4984	0.1224	0.0102	2779.80	M(B,H)AT	45.564	46.476	3.38	3.45	
NTP AITR1392-CYT-8HG-NIAR-FC-C-MH2-1-ETW2-4*	5.500	0.4984	0.1224	0.0102	2659.80	BGM	43.621	44.475	3.28	3.34	
Minimum	5.4965	0.4978	0.1192	0.0099	2474.13		40.497	41.313	3.101	3.201	
Maximum	5.5030	0.5017	0.1272	0.0106	3153.74		49.716	52.436	3.702	3.923	
Average	5.5002	0.4999	0.1230	0.0103	2744.02		44.588	45.741	3.366	3.458	
Standard Deviation	0.0018	0.0014	0.0026	0.0002	190.60		2.479	3.113	0.151	0.179	
Coefficient of Variation (%)	0.03	0.28	2.15	2.15	6.95		5.56	6.80	4.49	5.17	
No. Specimens	26	26	26	26	26		26	26	20	20	

**Notes:**  
NT=Not Tested  
NR=No Result  
GE=Gage Error  
FM=Failure Mode Unacceptable  
\*Specimens were taken from ETW2 set, tested at ETW.



<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition			
	AITR	1392	8HG	IPS	MH	CTD			

**Test Group: AITR1392-8HG-IPS-MH-CTD**

<b>Material:</b>	<b>MTM45-1/GF0103-35%RW</b>	Normalization:	NA	Cured Ply Thickness:	0.01	<b>ACG, Inc. Material &amp; Process Laboratory Report</b>			
Test Type:	+45° In Plane Shear	Condition:	CTD	#Plies:	8				
Test Method:	MP1115 (ASTMD3518)	Modulus/Poisson's Range:		Chord 0.2% to 0.6%					

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Failure Mode	Shear Strength, ksi			Modulus, Msi
						0.2% Offset	@ 5% Strain	Maximum	Measured
AITR1392-8HG-IPS-A-MH1-CTD-1	10.001	1.0070	0.0780	0.0098		6.303	GE	NT	0.689
AITR1392-8HG-IPS-A-MH1-CTD-2	10.003	1.0060	0.0770	0.0096		6.509	GE	NT	0.686
AITR1392-8HG-IPS-A-MH1-CTD-3	10.004	1.0060	0.0770	0.0096		6.891	GE	NT	0.665
AITR1392-8HG-IPS-A-MH1-CTD-4	10.001	1.0070	0.0770	0.0096		7.000	GE	NT	0.647
AITR1392-8HG-IPS-A-MH2-CTD-1	10.009	1.0100	0.0797	0.0100		7.106	GE	NT	0.613
AITR1392-8HG-IPS-A-MH2-CTD-2	9.991	1.0100	0.0810	0.0101		6.156	GE	NT	0.660
AITR1392-8HG-IPS-A-MH2-CTD-3	9.985	1.0100	0.0791	0.0099		GE	GE	NT	GE
AITR1392-8HG-IPS-A-MH2-CTD-4	9.991	1.0100	0.0799	0.0100		7.647	13.981	NT	0.660
AITR1392-8HG-IPS-B-MH1-CTD-1	10.005	1.0070	0.0814	0.0102		5.345	GE	NT	0.587
AITR1392-8HG-IPS-B-MH1-CTD-2	10.006	1.0080	0.0809	0.0101		7.108	GE	NT	0.605
AITR1392-8HG-IPS-B-MH1-CTD-3	10.007	1.0070	0.0798	0.0100		8.008	13.040	NT	0.618
AITR1392-8HG-IPS-B-MH1-CTD-4	10.009	0.9960	0.0796	0.0100		8.012	GE	NT	0.648
AITR1392-8HG-IPS-B-MH2-CTD-1	10.005	1.0080	0.0819	0.0102		7.366	12.961	NT	0.657
AITR1392-8HG-IPS-B-MH2-CTD-2	10.007	1.0090	0.0799	0.0100		6.367	GE	NT	0.722
AITR1392-8HG-IPS-B-MH2-CTD-3	10.007	1.0080	0.0809	0.0101		8.172	12.130	NT	0.641
AITR1392-8HG-IPS-B-MH2-CTD-4	10.004	1.0090	0.0810	0.0101		6.794	GE	NT	0.560
AITR1392-8HG-IPS-C-MH1-CTD-1	10.006	1.0020	0.0780	0.0098		6.980	12.990	NT	0.648
AITR1392-8HG-IPS-C-MH1-CTD-2	10.004	1.0070	0.0800	0.0100		6.608	12.790	NT	0.648
AITR1392-8HG-IPS-C-MH1-CTD-3	10.003	1.0080	0.0790	0.0099		6.685	GE	NT	0.651
AITR1392-8HG-IPS-C-MH1-CTD-4	10.004	1.0060	0.0790	0.0099		7.389	12.980	NT	0.582
AITR1392-8HG-IPS-C-MH2-CTD-1	10.005	1.0040	0.0790	0.0099		6.939	13.180	NT	0.655
AITR1392-8HG-IPS-C-MH2-CTD-2	10.003	1.0080	0.0800	0.0100		7.049	13.050	NT	0.611
AITR1392-8HG-IPS-C-MH2-CTD-3	10.005	1.0070	0.0760	0.0095		6.520	13.100	NT	0.698
AITR1392-8HG-IPS-C-MH2-CTD-4	10.007	1.0070	0.0790	0.0099		6.421	12.830	NT	0.664
Minimum	9.9850	0.9960	0.0760	0.0095		5.345	12.130		0.560
Maximum	10.0090	1.0100	0.0819	0.0102		8.172	13.981		0.722
Average	10.0030	1.0070	0.0793	0.0099		6.929	13.003		0.644
Standard Deviation	0.0059	0.0030	0.0015	0.0002		0.657	0.429		0.039
Coefficient of Variation (%)	0.06	0.30	1.95	1.95		9.47	3.30		6.01
No. Specimens	24	24	24	24		23	11		23

**Notes:**  
NT=Not Tested  
NR=No Result  
NA=Not Applicable  
FM=Failure Mode Unacceptable  
GE=Gage Error

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition			
	AITR	1392	8HG	IPS	MH	RTD			

**Test Group: AITR1392-8HG-IPS-MH-RTD**

<b>Material:</b> <b><u>MTM45-1/GF0103-35%RW</u></b>	Normalization: <u>NA</u>	Cured Ply Thickness: <u>0.01</u>	<b>ACG, Inc.</b> <b>Material &amp; Process</b> <b>Laboratory Report</b>
Test Type: <u>±45° In Plane Shear</u>	Condition: <u>RTD</u>	#Plies: <u>8</u>	
Test Method: <u>MP1115 (ASTMD3518)</u>	Modulus/Poisson's Range:	Chord <u>0.2% to 0.6%</u>	

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Failure Mode	Shear Strength, ksi			Modulus, Msi
						0.2% Offset	@ 5% Strain	Maximum	Measured
AITR1392-8HG-IPS-A-MH1-RTD-1	10.000	1.0080	0.0770	0.0096		5.368	9.559	NT	0.562
AITR1392-8HG-IPS-A-MH1-RTD-2	10.000	1.0050	0.0790	0.0099		5.632	9.499	NT	0.512
AITR1392-8HG-IPS-A-MH1-RTD-3	10.000	1.0080	0.0790	0.0099		5.694	9.765	NT	0.518
AITR1392-8HG-IPS-A-MH1-RTD-4						NT	NA	NT	NT
AITR1392-8HG-IPS-A-MH2-RTD-1	10.000	1.0080	0.0780	0.0098		5.166	GE	NT	0.562
AITR1392-8HG-IPS-A-MH2-RTD-2	10.000	1.0080	0.0780	0.0098		5.193	GE	NT	0.489
AITR1392-8HG-IPS-A-MH2-RTD-3	10.000	1.0090	0.0770	0.0096		5.291	9.737	NT	0.525
AITR1392-8HG-IPS-A-MH2-RTD-4						NT	NA	NT	NT
AITR1392-8HG-IPS-B-MH1-RTD-1	10.000	1.0090	0.0800	0.0100		6.802	NT	NT	0.738
AITR1392-8HG-IPS-B-MH1-RTD-2	10.000	0.9950	0.0780	0.0098		5.815	9.969	NT	0.551
AITR1392-8HG-IPS-B-MH1-RTD-3	10.000	1.0080	0.0790	0.0099		5.127	9.403	NT	0.506
AITR1392-8HG-IPS-B-MH1-RTD-4						NT	NA	NT	NT
AITR1392-8HG-IPS-B-MH2-RTD-1	10.000	1.0100	0.0820	0.0103		4.770	10.834	NT	0.504
AITR1392-8HG-IPS-B-MH2-RTD-2	10.000	1.0100	0.0807	0.0101		4.822	9.230	NT	0.532
AITR1392-8HG-IPS-B-MH2-RTD-3	10.000	1.0080	0.0806	0.0101		6.042	10.480	NT	0.568
AITR1392-8HG-IPS-B-MH2-RTD-4						NT	NA	NT	NT
AITR1392-8HG-IPS-C-MH1-RTD-1	10.000	1.0060	0.0790	0.0099		GE	GE	NT	GE
AITR1392-8HG-IPS-C-MH1-RTD-2	10.000	1.0070	0.0790	0.0099		5.272	9.739	NT	0.535
AITR1392-8HG-IPS-C-MH1-RTD-3	10.000	1.0060	0.0790	0.0099		5.399	10.379	NT	0.506
AITR1392-8HG-IPS-C-MH1-RTD-4						NT	NA	NT	NT
AITR1392-8HG-IPS-C-MH2-RTD-1	10.000	1.0080	0.0780	0.0098		5.219	9.497	NT	0.526
AITR1392-8HG-IPS-C-MH2-RTD-2	10.000	1.0080	0.0790	0.0099		5.197	GE	NT	0.527
AITR1392-8HG-IPS-C-MH2-RTD-3	10.000	1.0060	0.0790	0.0099		4.796	9.357	NT	0.533
AITR1392-8HG-IPS-C-MH2-RTD-4						NT	NA	NT	NT
Minimum	10.0000	0.9950	0.0770	0.0096		4.770	9.230		0.489
Maximum	10.0000	1.0100	0.0820	0.0103		6.802	10.834		0.738
Average	10.0000	1.0071	0.0790	0.0099		5.389	9.804		0.541
Standard Deviation	0.0000	0.0033	0.0013	0.0002		0.504	0.485		0.055
Coefficient of Variation (%)	0.00	0.33	1.61	1.61		9.35	4.95		10.25
No. Specimens	18	18	18	18		17	13		17

**Notes:**

NT=Not Tested  
NR=No Result  
NA=Not Applicable  
FM=Failure Mode Unacceptable  
GE=Gage Error



<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition			
	AITR	1392	8HG	IPS	MH	ETW2			

**Test Group: AITR1392-8HG-IPS-MH-ETW2**

<b>Material:</b>	<u>MTM45-1/GF0103-35%RW</u>	Normalization: <u>NA</u>	Cured Ply Thickness: <u>0.01</u>	<b>ACG, Inc.</b> <b>Material &amp; Process</b> <b>Laboratory Report</b>
Test Type:	<u>+45° In Plane Shear</u>	Condition: <u>ETW2</u>	#Plies: <u>8</u>	
Test Method:	<u>MP1115 (ASTMD3518)</u>	Modulus/Poisson's Range:	<u>Chord 0.2% to 0.6%</u>	

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Failure Mode	Shear Strength, ksi			Modulus, Msi Measured
						0.2% Offset	@ 5% Strain	Ultimate	
AITR1392-8HG-IPS-A-MH1-ETW2-1	10.014	1.0080	0.0780	0.0098		NT	NA	NT	NT
AITR1392-8HG-IPS-A-MH1-ETW2-2	10.016	1.0080	0.0740	0.0093		2.786	GE	NT	0.295
AITR1392-8HG-IPS-A-MH1-ETW2-3	10.014	1.0090	0.0750	0.0094		3.048	4.808	NT	0.313
AITR1392-8HG-IPS-A-MH1-ETW2-4	10.015	1.0080	0.0770	0.0096		2.758	5.006	NT	0.304
AITR1392-8HG-IPS-A-MH2-ETW2-1	10.032	1.0100	0.0790	0.0099		2.438	4.270	NT	0.329
AITR1392-8HG-IPS-A-MH2-ETW2-2	10.033	1.0100	0.0790	0.0099		2.498	4.387	NT	0.338
AITR1392-8HG-IPS-A-MH2-ETW2-3	10.040	1.0100	0.0790	0.0099		NT	NA	NT	NT
AITR1392-8HG-IPS-A-MH2-ETW2-4	10.040	1.0100	0.0800	0.0100		2.364	4.388	NT	0.283
AITR1392-8HG-IPS-B-MH1-ETW2-1	10.018	1.0000	0.0810	0.0101		2.548	4.546	NT	0.351
AITR1392-8HG-IPS-B-MH1-ETW2-2	10.013	1.0080	0.0790	0.0099		2.380	5.354	NT	0.310
AITR1392-8HG-IPS-B-MH1-ETW2-3	10.011	1.0080	0.0800	0.0100		2.689	4.236	NT	0.314
AITR1392-8HG-IPS-B-MH1-ETW2-4	10.012	1.0090	0.0790	0.0099		NT	NA	NT	NT
AITR1392-8HG-IPS-B-MH2-ETW2-1	10.014	1.0080	0.0800	0.0100		2.887	4.724	NT	0.328
AITR1392-8HG-IPS-B-MH2-ETW2-2	10.013	1.0020	0.0810	0.0101		GE	N/A	NT	GE
AITR1392-8HG-IPS-B-MH2-ETW2-3	10.017	1.0070	0.0800	0.0100		2.700	4.555	NT	0.354
AITR1392-8HG-IPS-B-MH2-ETW2-4	10.010	1.0090	0.0800	0.0100		NT	NA	NT	NT
AITR1392-8HG-IPS-C-MH1-ETW2-1	10.013	1.0060	0.0790	0.0099		2.448	5.533	NT	0.375
AITR1392-8HG-IPS-C-MH1-ETW2-2	10.013	1.0070	0.0770	0.0096		2.769	4.568	NT	0.341
AITR1392-8HG-IPS-C-MH1-ETW2-3	10.014	1.0060	0.0790	0.0099		2.518	N/A	NT	0.327
AITR1392-8HG-IPS-C-MH1-ETW2-4	10.015	1.0080	0.0800	0.0100		NT	NA	NT	NT
AITR1392-8HG-IPS-C-MH2-ETW2-1	10.016	1.0080	0.0790	0.0099		2.827	GE	NT	0.324
AITR1392-8HG-IPS-C-MH2-ETW2-2	10.017	1.0070	0.0790	0.0099		2.944	GE	NT	0.374
AITR1392-8HG-IPS-C-MH2-ETW2-3	10.018	1.0080	0.0790	0.0099		2.836	GE	NT	0.355
AITR1392-8HG-IPS-C-MH2-ETW2-4	10.015	1.0060	0.0790	0.0099		NT	NA	NT	NT
Minimum	10.0100	1.0000	0.0740	0.0093		2.364	4.236		0.283
Maximum	10.0400	1.0100	0.0810	0.0101		3.048	5.533		0.375
Average	10.0180	1.0075	0.0788	0.0099		2.673	4.698		0.330
Standard Deviation	0.0087	0.0024	0.0017	0.0002		0.209	0.414		0.026
Coefficient of Variation (%)	0.09	0.23	2.10	2.10		7.82	8.81		7.89
No. Specimens	24	24	24	24		17	12		17

**Notes:**  
NT=Not Tested  
NR=No Result  
NA=Not Applicable  
FM=Failure Mode Unacceptable  
GE=Gage Error





<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition		
	AITR	1392	8HG	SBS	MH	ETD		

**Test Group: AITR1392-8HG-SBS-MH-ETD**

<b>Material:</b>	<b><u>MTM45-1/GF0103-35%RW</u></b>	Normalization:	Cured Ply Thickness:	<u>0.01</u>	<b>ACG, Inc. Material &amp; Process Laboratory Report</b>
Test Type:	<u>Short Beam Shear</u>	Condition:	<u>ETD</u>	#Plies: <u>12</u>	
Test Method:	<u>MP1116 (ASTMD2344)</u>	Span (4t):	<u>0.48</u>		

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi	
							Measured	Normalized
AITR1392-8HG-SBS-A-MH1-ETD-1	1.501	0.2586	0.1179	0.0098	355.00	ILS/FCC	8.733	8.580
AITR1392-8HG-SBS-A-MH1-ETD-2	1.505	0.2542	0.1144	0.0095	323.00	FCC/ILS	8.330	7.942
AITR1392-8HG-SBS-A-MH1-ETD-3	1.501	0.2543	0.1178	0.0098	334.00	FCC/ILS	8.362	8.209
AITR1392-8HG-SBS-A-MH1-ETD-4					NT			
AITR1392-8HG-SBS-A-MH2-ETD-1	1.503	0.2545	0.1161	0.0097	328.00	ILS/FCC	8.326	8.055
AITR1392-8HG-SBS-A-MH2-ETD-2	1.502	0.2547	0.1197	0.0100	338.00	ILS/FCC	8.315	8.294
AITR1392-8HG-SBS-A-MH2-ETD-3	1.502	0.2546	0.1163	0.0097	326.00	ILS/FCC	8.257	8.003
AITR1392-8HG-SBS-A-MH2-ETD-4					NT			
AITR1392-8HG-SBS-B-MH1-ETD-1	1.501	0.2544	0.1220	0.0102	341.00	ILS/FCC	8.240	8.378
AITR1392-8HG-SBS-B-MH1-ETD-2	1.500	0.2567	0.1225	0.0102	345.00	ILS/FCC	8.228	8.400
AITR1392-8HG-SBS-B-MH1-ETD-3	1.501	0.2567	0.1221	0.0102	345.00	ILS/FCC	8.255	8.400
AITR1392-8HG-SBS-B-MH1-ETD-4					NT			
AITR1392-8HG-SBS-B-MH2-ETD-1	1.501	0.2497	0.1237	0.0103	344.00	ILS/FCC	8.353	8.610
AITR1392-8HG-SBS-B-MH2-ETD-2	1.501	0.2495	0.1224	0.0102	343.00	ILS/FCC	8.424	8.592
AITR1392-8HG-SBS-B-MH2-ETD-3	1.501	0.2498	0.1227	0.0102	353.00	FCC/ILS	8.638	8.832
AITR1392-8HG-SBS-B-MH2-ETD-4					NT			
AITR1392-8HG-SBS-C-MH1-ETD-1	1.503	0.2540	0.1229	0.0102	346.00	ILS/FCC	8.313	8.514
AITR1392-8HG-SBS-C-MH1-ETD-2	1.503	0.2559	0.1237	0.0103	348.00	ILS/FCC	8.245	8.499
AITR1392-8HG-SBS-C-MH1-ETD-3	1.503	0.2539	0.1229	0.0102	347.00	ILS/FCC	8.340	8.542
AITR1392-8HG-SBS-C-MH1-ETD-4					NT			
AITR1392-8HG-SBS-C-MH2-ETD-1	1.502	0.2509	0.1207	0.0101	350.00	FCC/ILS	8.668	8.719
AITR1392-8HG-SBS-C-MH2-ETD-2	1.506	0.2522	0.1212	0.0101	343.00	ILS/FCC	8.416	8.500
AITR1392-8HG-SBS-C-MH2-ETD-3	1.506	0.2528	0.1244	0.0104	359.00	FCC/ILS	8.562	8.876
AITR1392-8HG-SBS-C-MH2-ETD-4					NT			
Minimum	1.5000	0.2495	0.1144	0.0095	323.00		8.228	7.942
Maximum	1.5060	0.2586	0.1244	0.0104	359.00		8.733	8.876
Average	1.5023	0.2537	0.1207	0.0101	342.67		8.389	8.441
Standard Deviation	0.0018	0.0025	0.0030	0.0002	9.79		0.157	0.264
Coefficient of Variation (%)	0.12	1.00	2.48	2.48	2.86		1.87	3.13
No. Specimens	18	18	18	18	18		18	18

**Notes:**  
NT=Not Tested  
NR=No Result  
FM=Failure Mode Unacceptable















<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition					
	AITR	1392	8HG	UNC1	MH	ETW2					

**Test Group: AITR1392-8HG-UNC1-MH-ETW2**

<b>Material:</b>	<u>MTM45-1/GF0103-35%RW</u>	Normalization:	Cured Ply Thickness: <u>0.01</u>	#Plies: <u>12</u>	<b>ACG, Inc. Material &amp; Process Laboratory Report</b>
Test Type:	<u>Quasi Unnotched Compression</u>	Condition:	<u>ETW2</u>		
Test Method:	<u>MP1114 (ASTMD6641)</u>	Modulus/Poisson's Range:	<u>Chord 0.1% to 0.3%</u>		

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi		Modulus, Msi		Poisson's Ratio
							Measured	Normalized	Measured	Normalized	
AITR1392-8HG-UNC1-A-MH1-ETW2-1	5.508	0.5050	0.1130	0.0094	1707.00	BGM	29.913	28.168	4.31	4.06	0.407
AITR1392-8HG-UNC1-A-MH1-ETW2-2	5.509	0.5050	0.1160	0.0097	1683.00	AGM	28.730	27.772	GE		GE
AITR1392-8HG-UNC1-A-MH1-ETW2-3	5.509	0.5050	0.1150	0.0096	1882.00	BGM	32.406	31.056	3.47	3.33	0.372
AITR1392-8HG-UNC1-A-MH1-ETW2-4	5.509	0.5050	0.1170	0.0098	NT				NT		NT
AITR1392-8HG-UNC1-A-MH2-ETW2-1	5.510	0.5070	0.1130	0.0094	1612.00	HGM	28.137	26.496	4.48	4.22	0.396
AITR1392-8HG-UNC1-A-MH2-ETW2-2	5.512	0.5070	0.1140	0.0095	1893.00	HAM	32.752	31.114	4.13	3.93	0.323
AITR1392-8HG-UNC1-A-MH2-ETW2-3	5.515	0.5070	0.1140	0.0095	1881.00	HAM	32.544	30.917	4.25	4.04	0.354
AITR1392-8HG-UNC1-A-MH2-ETW2-4	5.515	0.5070	0.1170	0.0098	NT				NT		NT
AITR1392-8HG-UNC1-B-MH1-ETW2-1	5.512	0.5090	0.1160	0.0097	2299.00	HGM	38.937	37.639	4.36	4.21	0.441
AITR1392-8HG-UNC1-B-MH1-ETW2-2	5.508	0.5060	0.1200	0.0100	2337.00	HAM	38.488	38.488	3.91	3.91	0.433
AITR1392-8HG-UNC1-B-MH1-ETW2-3	5.510	0.5070	0.1170	0.0098	2161.00	HAM	36.430	35.519	GE		GE
AITR1392-8HG-UNC1-B-MH1-ETW2-4	5.509	0.5080	0.1120	0.0093	NT				NT		NT
AITR1392-8HG-UNC1-B-MH2-ETW2-1	5.510	0.5070	0.1170	0.0098	2128.00	HAM	35.874	34.977	GE		GE
AITR1392-8HG-UNC1-B-MH2-ETW2-2	5.510	0.5070	0.1160	0.0097	2261.00	HAM	38.445	37.163	4.45	4.31	0.488
AITR1392-8HG-UNC1-B-MH2-ETW2-3	5.509	0.5070	0.1150	0.0096	1991.00	HAT	34.148	32.725	4.10	3.93	0.422
AITR1392-8HG-UNC1-B-MH2-ETW2-4	5.510	0.5070	0.1180	0.0098	NT				NT		NT
AITR1392-8HG-UNC1-C-MH1-ETW2-1	5.509	0.5070	0.1110	0.0093	1888.00	HGT	33.548	31.032	4.69	4.33	0.427
AITR1392-8HG-UNC1-C-MH1-ETW2-2	5.509	0.5070	0.1180	0.0098	2168.00	BGM	36.238	35.634	4.47	4.39	0.450
AITR1392-8HG-UNC1-C-MH1-ETW2-3	5.509	0.5070	0.1120	0.0093	1995.00	HAB	35.133	32.791	3.97	3.71	0.406
AITR1392-8HG-UNC1-C-MH1-ETW2-4	5.509	0.5060	0.1170	0.0098	NT				NT		NT
AITR1392-8HG-UNC1-C-MH2-ETW2-1	5.501	0.5030	0.1160	0.0097	1852.00	BGM	31.741	30.683	4.18	4.04	0.459
AITR1392-8HG-UNC1-C-MH2-ETW2-2	5.501	0.5030	0.1170	0.0098	2060.00	BAT	35.004	34.129	4.39	4.28	0.465
AITR1392-8HG-UNC1-C-MH2-ETW2-3	5.501	0.5030	0.1180	0.0098	2022.00	HAB	34.067	33.499	4.02	3.95	0.370
AITR1392-8HG-UNC1-C-MH2-ETW2-4	5.500	0.5030	0.1160	0.0097	NT				NT		NT
Minimum	5.5000	0.5030	0.1110	0.0093	1612.00		28.137	26.496	3.470	3.325	0.3233
Maximum	5.5150	0.5090	0.1200	0.0100	2337.00		38.937	38.488	4.686	4.393	0.4877
Average	5.5085	0.5060	0.1156	0.0096	1990.00		34.030	32.767	4.211	4.042	0.4141
Standard Deviation	0.0040	0.0017	0.0022	0.0002	210.72		3.175	3.436	0.297	0.276	0.0452
Coefficient of Variation (%)	0.07	0.33	1.94	1.94	10.59		9.33	10.49	7.06	6.84	10.91
No. Specimens	24	24	24	24	18		18	18	15	15	15

**Notes:**  
NT=Not Tested    A-MH1-ETW2-3 modulus from 1700 to 3700, C-MH2-ETW2-3 modulus from 2000 to 4000  
NR=No Result  
GE=Gage Error  
FM=Failure Mode Unacceptable





<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition		
	AITR	1392	8HG	SBS1	MH	ETW2		

**Test Group: AITR1392-8HG-SBS1-MH-ETW2**

<b>Material:</b>	<u>MTM45-1/GF0103-35%RW</u>	Normalization:	Cured Ply Thickness:	0.01	<b>ACG, Inc.</b> <b>Material &amp; Process</b> <b>Laboratory Report</b>	
Test Type:	<u>Quasi Short Beam Shear</u>	Condition:	ETW2	#Plies:		12
Test Method:	<u>MP1116 (ASTMD2344)</u>	Span (4t):	0.47			

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi	
							Measured	Normalized
AITR1392-8HG-SBS1-A-MH1-ETW2-1	1.506	0.2531	0.1195	0.0100	200.90	FTC	4.982	4.961
AITR1392-8HG-SBS1-A-MH1-ETW2-2	1.505	0.2508	0.1201	0.0100	205.00	FTC	5.104	5.109
AITR1392-8HG-SBS1-A-MH1-ETW2-3	1.507	0.2516	0.1202	0.0100	205.80	FTC	5.104	5.112
AITR1392-8HG-SBS1-A-MH1-ETW2-4					NT			
AITR1392-8HG-SBS1-A-MH2-ETW2-1	1.509	0.2518	0.1188	0.0099	180.00	ILS	4.513	4.468
AITR1392-8HG-SBS1-A-MH2-ETW2-2					NT			
AITR1392-8HG-SBS1-A-MH2-ETW2-3	1.501	0.2519	0.1193	0.0099	176.20	ILS	4.397	4.372
AITR1392-8HG-SBS1-A-MH2-ETW2-4	1.501	0.2513	0.1179	0.0098	172.50	ILS	4.367	4.290
AITR1392-8HG-SBS1-B-MH1-ETW2-1	1.587	0.2565	0.1203	0.0100	189.50	ILS	4.606	4.617
AITR1392-8HG-SBS1-B-MH1-ETW2-2	1.589	0.2563	0.1206	0.0101	186.20	ILS	4.518	4.541
AITR1392-8HG-SBS1-B-MH1-ETW2-3	1.585	0.2562	0.1197	0.0100	182.10	ILS	4.453	4.442
AITR1392-8HG-SBS1-B-MH1-ETW2-4					NT			
AITR1392-8HG-SBS1-B-MH2-ETW2-1	1.566	0.2568	0.1088	0.0091	161.50	ILS	4.335	3.931
AITR1392-8HG-SBS1-B-MH2-ETW2-2	1.585	0.2562	0.1151	0.0096	170.30	ILS	4.331	4.154
AITR1392-8HG-SBS1-B-MH2-ETW2-3	1.584	0.2554	0.1160	0.0097	174.60	ILS	4.420	4.273
AITR1392-8HG-SBS1-B-MH2-ETW2-4					NT			
AITR1392-8HG-SBS1-C-MH1-ETW2-1	1.590	0.2541	0.1145	0.0095	180.70	ILS	4.658	4.445
AITR1392-8HG-SBS1-C-MH1-ETW2-2	1.586	0.2541	0.1168	0.0097	183.50	ILS	4.637	4.513
AITR1392-8HG-SBS1-C-MH1-ETW2-3	1.586	0.2535	0.1148	0.0096	177.90	ILS	4.585	4.386
AITR1392-8HG-SBS1-C-MH1-ETW2-4					NT			
AITR1392-8HG-SBS1-C-MH2-ETW2-1	1.583	0.2561	0.1183	0.0099	187.10	ILS	4.632	4.566
AITR1392-8HG-SBS1-C-MH2-ETW2-2	1.585	0.2564	0.1178	0.0098	189.20	ILS	4.698	4.612
AITR1392-8HG-SBS1-C-MH2-ETW2-3	1.588	0.2561	0.1174	0.0098	188.90	ILS	4.712	4.610
AITR1392-8HG-SBS1-C-MH2-ETW2-4					NT			
Minimum	1.5010	0.2508	0.1088	0.0091	161.50		4.331	3.931
Maximum	1.5900	0.2568	0.1206	0.0101	205.80		5.104	5.112
Average	1.5579	0.2543	0.1176	0.0098	183.99		4.614	4.522
Standard Deviation	0.0390	0.0021	0.0029	0.0002	11.73		0.241	0.304
Coefficient of Variation (%)	2.50	0.84	2.50	2.50	6.38		5.22	6.72
No. Specimens	18	18	18	18	18		18	18

**Notes:**  
NT=Not Tested  
NR=No Result  
FM=Failure Mode Unacceptable

<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition				
	AITR	1392	8HG	OHT1	MH	CTD				

**Test Group: AITR1392-8HG-OHT1-MH-CTD**

<b>Material:</b> <u>MTM45-1/GF0103-35%RW</u>	Normalization: <u>NA</u>	Cured Ply Thickness: <u>0.01</u>	<b>ACG, Inc.</b> <b>Material &amp; Process</b> <b>Laboratory Report</b>
Test Type: <u>Open-Hole Tension Layup 1</u>	Condition: <u>CTD</u>	#Plies: <u>12</u>	
Test Method: <u>MP1117 (ASTMD5766)</u>			

**Normalized**

Specimen ID	Length, in	Width, in	Thickness, in	Cured Ply Thickness:	Diameter	Width/Diameter	Diameter/Thickness	Ultimate Load, lb	Ultimate Strength, ksi	Failure Mode
AITR1392-8HG-OHT1-A-MH1-CTD-1	12.0000	1.5070	0.1130	0.0094	0.2481	6.0742	2.1956	6106.19	35.86	LGM
AITR1392-8HG-OHT1-A-MH1-CTD-2	12.0000	1.5070	0.1140	0.0095	0.2481	6.0742	2.1763	5994.85	34.89	LGM
AITR1392-8HG-OHT1-A-MH1-CTD-3	12.0000	1.5070	0.1130	0.0094	0.2473	6.0938	2.1885	5965.63	35.03	LGM
AITR1392-8HG-OHT1-A-MH1-CTD-4	12.0000							NT		
AITR1392-8HG-OHT1-A-MH2-CTD-1	12.0000	1.5080	0.1190	0.0099	0.2470	6.1053	2.0756	6147.09	34.25	LGM
AITR1392-8HG-OHT1-A-MH2-CTD-2	12.0000	1.5100	0.1170	0.0098	0.2483	6.0814	2.1222	5909.74	33.45	LGM
AITR1392-8HG-OHT1-A-MH2-CTD-3	12.0000	1.5080	0.1190	0.0099	0.2470	6.1053	2.0756	5805.29	32.35	LGM
AITR1392-8HG-OHT1-A-MH2-CTD-4	12.0000							NT		
AITR1392-8HG-OHT1-B-MH1-CTD-1	12.0000	1.5090	0.1220	0.0102	0.2471	6.1068	2.0254	6049.03	32.86	LGM
AITR1392-8HG-OHT1-B-MH1-CTD-2	12.0000	1.5070	0.1220	0.0102	0.2471	6.0987	2.0254	5917.20	32.18	LGM
AITR1392-8HG-OHT1-B-MH1-CTD-3	12.0000	1.5080	0.1210	0.0101	0.2470	6.1053	2.0413	6104.80	33.46	LGM
AITR1392-8HG-OHT1-B-MH1-CTD-4	12.0000							NT		
AITR1392-8HG-OHT1-B-MH2-CTD-1	12.0000	1.5070	0.1180	0.0098	0.2470	6.1012	2.0932	5925.19	33.32	LGM
AITR1392-8HG-OHT1-B-MH2-CTD-2	12.0000	1.5080	0.1180	0.0098	0.2480	6.0806	2.1017	5913.24	33.23	LGM
AITR1392-8HG-OHT1-B-MH2-CTD-3	12.0000	1.5070	0.1210	0.0101	0.2472	6.0963	2.0430	6006.91	32.94	LGM
AITR1392-8HG-OHT1-B-MH2-CTD-4	12.0000							NT		
AITR1392-8HG-OHT1-C-MH1-CTD-1	12.0000	1.5040	0.1210	0.0101	0.2470	6.0891	2.0413	5918.85	32.52	LGM
AITR1392-8HG-OHT1-C-MH1-CTD-2	12.0000	1.5040	0.1140	0.0095	0.2470	6.0891	2.1667	5999.30	34.99	LGM
AITR1392-8HG-OHT1-C-MH1-CTD-3	12.0000	1.5040	0.1190	0.0099	0.2478	6.0694	2.0824	6141.80	34.32	LGM
AITR1392-8HG-OHT1-C-MH1-CTD-4	12.0000							NT		
AITR1392-8HG-OHT1-C-MH2-CTD-1	12.0000	1.5080	0.1220	0.0102	0.2471	6.1028	2.0254	6102.96	33.17	LGM
AITR1392-8HG-OHT1-C-MH2-CTD-2	12.0000	1.5080	0.1190	0.0099	0.2472	6.1003	2.0773	6032.70	33.62	LGM
AITR1392-8HG-OHT1-C-MH2-CTD-3	12.0000	1.5070	0.1190	0.0099	0.2472	6.0963	2.0773	5958.84	33.23	LGM
AITR1392-8HG-OHT1-C-MH2-CTD-4	12.0000							NT		
Minimum	12.0000	1.5040	0.1130	0.0094	0.2470	6.0694	2.0254	5805.2940	32.1842	
Maximum	12.0000	1.5100	0.1220	0.0102	0.2483	6.1068	2.1956	6147.0860	35.8574	
Average	12.0000	1.5071	0.1184	0.0099	0.2474	6.0928	2.0908	5999.9777	33.6489	
Standard Deviation	0.0000	0.0016	0.0031	0.0003	0.0005	0.0121	0.0572	95.0696	1.0273	
Coefficient of Variation (%)	0.00	0.11	2.59	2.59	0.19	0.20	2.74	1.58	3.05	
No. Specimens	24	18	18	18	18	18	18	18	18	

Ultimate Strength,
33.77
33.15
32.99
33.97
32.61
32.08
33.41
32.72
33.74
32.76
32.68
33.22
32.80
33.24
34.03
33.73
33.34
32.95
32.0805
34.0304
33.1760
0.5302
1.60
18

**Notes:**  
NT=Not Tested  
NR=No Result  
NA=Not Applicable  
FM=Failure Mode Unacceptable







































<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition							
	AITR	1392	8HG	PB1	MH	RTD							

**Test Group: AITR1392-8HG-PB1-MH-RTD**

<b>Material:</b> <u>MTM45-1/GF0103-35%RW</u>	Normalization: <u>NA</u>	Cured Ply Thickness: <u>0.01</u>	<b>ACG, Inc. Material &amp; Process Laboratory Report</b>	<b>Normalized</b>
Test Type: <u>Single Shear Pin Bearing Layup 1</u>	Condition: <u>RTD</u>	#Plies: <u>12</u>		
Test Method: <u>MP1120 (ASTMD5961)</u>				

Specimen ID	Width, in.	Thickness, in.	Diameter	Hole Center-End (e)	Hole Edge-Side (g)	Hole Edge-End (f)	Hole-Edge/Diameter (e/D)	Width/Diameter	Diameter/Thickness	Strength, ksi				Cured Ply Thickness	Ultimate Strength, ksi	2% Offset Strength, ksi
										Initial Peak	Ultimate	2% Offset	4% Offset			
AITR1392-8HG-PB1-A-MH1-RTD-1	1.5100	0.1210	0.2503	0.7514	0.6217	0.6262	3.0018	6.033	2.069	71.04	98.20	64.54	81.36	0.0101	99.01	65.07
AITR1392-8HG-PB1-A-MH1-RTD-2	1.5100	0.1220	0.2500	0.7512	0.6217	0.6262	3.0048	6.040	2.049	74.15	102.98	67.17	80.41	0.0102	104.70	68.29
AITR1392-8HG-PB1-A-MH1-RTD-3	1.5100	0.1180	0.2508	0.7516	0.6217	0.6262	2.9968	6.021	2.125	68.87	93.90	56.35	68.77	0.0098	92.34	55.41
AITR1392-8HG-PB1-A-MH1-RTD-4	1.5100	0.1200	0.2501	0.7513	0.6217	0.6262	3.0038	6.038	2.084	70.16	97.69	68.32	82.64	0.0100	97.69	68.32
AITR1392-8HG-PB1-A-MH2-RTD-1	1.5100	0.1210	0.2510	0.7517	0.6217	0.6262	2.9948	6.016	2.074	71.70	101.28	70.57	85.00	0.0101	102.12	71.16
AITR1392-8HG-PB1-A-MH2-RTD-2	1.5100	0.1200	0.2503	0.7514	0.6217	0.6262	3.0018	6.033	2.086	71.14	90.86	67.92	76.35	0.0100	90.86	67.92
AITR1392-8HG-PB1-A-MH2-RTD-3	1.5100	0.1200	0.2502	0.7513	0.6217	0.6262	3.0028	6.035	2.085	72.12	96.49	70.61	81.95	0.0100	96.49	70.61
AITR1392-8HG-PB1-A-MH2-RTD-4	1.5100	0.1190	0.2508	0.7516	0.6217	0.6262	2.9968	6.021	2.108	71.37	95.89	80.22	88.09	0.0099	95.10	79.55
AITR1392-8HG-PB1-B-MH1-RTD-1	1.5100	0.1100	0.2509	0.7517	0.6217	0.6262	2.9958	6.018	2.281	70.38	88.77	68.36	63.71	0.0092	81.37	62.66
AITR1392-8HG-PB1-B-MH1-RTD-2	1.5100	0.1220	0.2510	0.7517	0.6217	0.6262	2.9948	6.016	2.057	79.92	106.13	77.86	91.83	0.0102	107.90	79.15
AITR1392-8HG-PB1-B-MH1-RTD-3	1.5100	0.1190	0.2508	0.7516	0.6217	0.6262	2.9968	6.021	2.108	73.65	101.29	80.38	93.67	0.0099	100.45	79.71
AITR1392-8HG-PB1-B-MH1-RTD-4	1.5100	0.1200	0.2508	0.7516	0.6217	0.6262	2.9968	6.021	2.090	NT				0.0100		
AITR1392-8HG-PB1-B-MH2-RTD-1	1.5100	0.1220	0.2519	0.7522	0.6217	0.6262	2.9859	5.994	2.065	68.70	97.59	68.60	85.74	0.0102	99.21	69.75
AITR1392-8HG-PB1-B-MH2-RTD-2	1.5100	0.1210	0.2513	0.7519	0.6217	0.6262	2.9918	6.009	2.077	72.34	97.74	72.74	81.96	0.0101	98.55	73.35
AITR1392-8HG-PB1-B-MH2-RTD-3	1.5100	0.1220	0.2511	0.7518	0.6217	0.6262	2.9938	6.014	2.058	71.32	107.89	63.65	77.58	0.0102	109.68	64.71
AITR1392-8HG-PB1-B-MH2-RTD-4	1.5100	0.1200	0.2508	0.7516	0.6217	0.6262	2.9968	6.021	2.090	NT				0.0100		
AITR1392-8HG-PB1-C-MH1-RTD-1	1.5100	0.1210	0.2508	0.7516	0.6217	0.6262	2.9968	6.021	2.073	67.66	96.02	62.37	75.44	0.0101	96.82	62.89
AITR1392-8HG-PB1-C-MH1-RTD-2	1.5100	0.1210	0.2512	0.7518	0.6217	0.6262	2.9928	6.011	2.076	70.39	94.59	62.49	69.70	0.0101	95.38	63.01
AITR1392-8HG-PB1-C-MH1-RTD-3	1.5100	0.1190	0.2500	0.7512	0.6217	0.6262	3.0048	6.040	2.101	67.22	97.85	59.52	65.18	0.0099	97.03	59.03
AITR1392-8HG-PB1-C-MH1-RTD-4	1.5100	0.1200	0.2508	0.7516	0.6217	0.6262	2.9968	6.021	2.090	NT				0.0100		
AITR1392-8HG-PB1-C-MH2-RTD-1	1.5100	0.1170	0.2506	0.7515	0.6217	0.6262	2.9988	6.026	2.142	75.80	102.05	67.41	85.20	0.0098	99.49	65.73
AITR1392-8HG-PB1-C-MH2-RTD-2	1.5100	0.1180	0.2510	0.7517	0.6217	0.6262	2.9948	6.016	2.127	68.07	102.91	65.38	81.68	0.0098	101.20	64.29
AITR1392-8HG-PB1-C-MH2-RTD-3	1.5100	0.1180	0.2510	0.7517	0.6217	0.6262	2.9948	6.016	2.127	72.76	102.03	65.13	79.55	0.0098	100.33	64.04
AITR1392-8HG-PB1-C-MH2-RTD-4	1.5100	0.1200	0.2508	0.7516	0.6217	0.6262	2.9968	6.021	2.090	NT				0.0100		
Minimum	1.5100	0.1100	0.2500	0.7512	0.6217	0.6262	2.9859	5.9944	2.0492	67.2200	88.7713	56.3460	63.7060	0.0092	81.3737	55.4069
Maximum	1.5100	0.1220	0.2519	0.7522	0.6217	0.6262	3.0048	6.0400	2.2809	79.9150	107.8860	80.3810	93.6710	0.0102	109.6841	79.7112
Average	1.5100	0.1196	0.2508	0.7516	0.6217	0.6262	2.9972	6.0217	2.0971	71.4377	98.6077	67.9800	79.7901	0.0100	98.2870	67.7331
Standard Deviation	0.0000	0.0025	0.0004	0.0002	0.0000	0.0000	0.0044	0.0106	0.0459	2.9719	4.7864	6.2959	8.1214	0.0002	6.0741	6.5488
Coefficient of Variation (%)	0.00	2.07	0.18	0.03	0.00	0.00	0.15	0.18	2.19	4.16	4.85	9.26	10.18	2.07	6.18	9.67
No. Specimens	24	24	24	24	24	24	24	24	24	20	20	20	20	24	20	20

**Notes:**  
NT=Not Tested  
NR=No Result  
NA=Not Applicable  
GE=Gage Error

<b>Input:</b>	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition									
	AITR	1392	8HG	PB1	MH	ETW2									

**Test Group: AITR1392-8HG-PB1-MH-ETW2**

<b>Material:</b> <b>MTM45-1/GF0103-35%RW</b>	Normalization: <b>NA</b>	Cured Ply Thickness: <b>0.01</b>	<b>ACG, Inc.</b>	
	Test Type: <b>Single Shear Pin Bearing Layup 1</b>	Condition: <b>ETW2</b>		<b>Material &amp; Process</b>
	Test Method: <b>MP1120 (ASTMD5961)</b>	#Plies: <b>12</b>		

Specimen ID	Width, in.	Thickness, in.	Diameter	Hole Center-End (e)	Hole Edge-Side (g)	Hole Edge-End (f)	Hole-Edge/Diameter (e/D)	Width/Diameter	Diameter/Thickness	Strength, ksi				Cured Ply Thickness	Ultimate Strength, ksi	2% Offset Strength, ksi
										Initial Peak	Ultimate	2% Offset	4% Offset			
AITR1392-8HG-PB1-A-MH1-ETW2-1	1.5090	0.1200	0.2503	0.7582	0.6240	0.6330	3.0290	6.029	2.086	44.52	64.72	40.36	50.46	0.0100	64.72	40.36
AITR1392-8HG-PB1-A-MH1-ETW2-2	1.5110	0.1200	0.2506	0.7543	0.6210	0.6290	3.0100	6.030	2.088	44.47	62.95	39.94	47.41	0.0100	62.95	39.94
AITR1392-8HG-PB1-A-MH1-ETW2-3	1.5100	0.1200	0.2504	0.7542	0.6240	0.6290	3.0120	6.030	2.087	46.83	64.76	49.68	58.50	0.0100	64.76	49.68
AITR1392-8HG-PB1-A-MH1-ETW2-4	1.5100	0.1180	0.2503	0.7532	0.6250	0.6280	3.0090	6.033	2.121	47.46	75.23	48.19	58.02	0.0098	73.98	47.38
AITR1392-8HG-PB1-A-MH2-ETW2-1	1.5090	0.1180	0.2509	0.7505	0.6210	0.6250	2.9910	6.014	2.126	54.58	69.17	56.05	64.86	0.0098	68.02	55.12
AITR1392-8HG-PB1-A-MH2-ETW2-2	1.5090	0.1190	0.2504	0.7542	0.6210	0.6290	3.0120	6.026	2.104	48.67	65.98	48.68	59.58	0.0099	65.43	48.27
AITR1392-8HG-PB1-A-MH2-ETW2-3	1.5100	0.1150	0.2508	0.7534	0.6210	0.6280	3.0040	6.021	2.181	47.01	66.40	48.60	61.59	0.0096	63.63	46.58
AITR1392-8HG-PB1-A-MH2-ETW2-4	1.5100	0.1200	0.2503	0.7532	0.6210	0.6280	3.0090	6.033	2.086	NT				0.0100		
AITR1392-8HG-PB1-B-MH1-ETW2-1	1.5090	0.1228	0.2508	0.7494	0.6200	0.6240	2.9880	6.017	2.042	46.34	61.82	49.67	56.71	0.0102	63.26	50.83
AITR1392-8HG-PB1-B-MH1-ETW2-2	1.5100	0.1222	0.2509	0.7495	0.6210	0.6240	2.9870	6.018	2.053	46.42	59.85	47.51	57.61	0.0102	60.95	48.39
AITR1392-8HG-PB1-B-MH1-ETW2-3	1.5100	0.1237	0.2502	0.7491	0.6200	0.6240	2.9940	6.035	2.023	47.85	64.65	47.55	54.83	0.0103	66.65	49.02
AITR1392-8HG-PB1-B-MH1-ETW2-4	1.5090	0.1189	0.2506	0.7483	0.6230	0.6230	2.9860	6.022	2.108	48.24	65.38	50.60	58.10	0.0099	64.78	50.14
AITR1392-8HG-PB1-B-MH2-ETW2-1	1.5100	0.1184	0.2505	0.7553	0.6220	0.6300	3.0150	6.028	2.116	49.17	65.07	47.06	52.52	0.0099	64.20	46.43
AITR1392-8HG-PB1-B-MH2-ETW2-2	1.5100	0.1198	0.2508	0.7414	0.6270	0.6160	2.9561	6.021	2.093	46.16	64.63	44.43	50.94	0.0100	64.53	44.36
AITR1392-8HG-PB1-B-MH2-ETW2-3	1.5100	0.1222	0.2505	0.7303	0.6260	0.6050	2.9152	6.028	2.050	NT				0.0102		
AITR1392-8HG-PB1-B-MH2-ETW2-4	1.5100	0.1224	0.2512	0.7546	0.6200	0.6290	3.0040	6.011	2.052	43.82	64.49	45.50	57.23	0.0102	65.78	46.41
AITR1392-8HG-PB1-C-MH1-ETW2-1	1.5100	0.1199	0.2504	0.7542	0.6220	0.6290	3.0120	6.030	2.088	44.21	65.45	44.00	56.13	0.0100	65.40	43.96
AITR1392-8HG-PB1-C-MH1-ETW2-2	1.5100	0.1204	0.2506	0.7553	0.6200	0.6300	3.0140	6.026	2.081	44.65	67.71	48.65	59.73	0.0100	67.94	48.81
AITR1392-8HG-PB1-C-MH1-ETW2-3	1.5100	0.1151	0.2510	0.7545	0.6200	0.6290	3.0060	6.016	2.181	47.80	71.62	50.09	66.19	0.0096	68.69	48.04
AITR1392-8HG-PB1-C-MH1-ETW2-4			0.0000							NT				#VALUE!		
AITR1392-8HG-PB1-C-MH2-ETW2-1	1.5090	0.1176	0.2507	0.7534	0.6210	0.6280	3.0050	6.019	2.132	46.82	64.34	48.52	59.33	0.0098	63.06	47.55
AITR1392-8HG-PB1-C-MH2-ETW2-2	1.5100	0.1192	0.2505	0.7493	0.6210	0.6240	2.9910	6.028	2.102	46.47	64.10	50.27	60.41	0.0099	63.67	49.94
AITR1392-8HG-PB1-C-MH2-ETW2-3	1.5100	0.1198	0.2504	0.7542	0.6190	0.6290	3.0120	6.030	2.090	46.49	66.70	42.42	54.06	0.0100	66.59	42.35
AITR1392-8HG-PB1-C-MH2-ETW2-4	1.5080	0.1126	0.2506	0.7543	0.6190	0.6290	3.0100	6.018	2.226	NT				0.0094		
Minimum	1.5080	0.1126	0.0000	0.7303	0.6190	0.6050	2.9152	6.0111	2.0226	43.8170	59.8500	39.9440	47.4090	#VALUE!	60.9473	39.9440
Maximum	1.5110	0.1237	0.2512	0.7582	0.6270	0.6330	3.0290	6.0352	2.2256	54.5750	75.2318	56.0510	66.1880	#VALUE!	73.9779	55.1168
Average	1.5097	0.1193	0.2402	0.7515	0.6217	0.6262	2.9987	6.0244	2.1007	46.8987	65.7522	47.3885	57.2094	#VALUE!	65.4496	47.1774
Standard Deviation	0.0006	0.0026	0.0512	0.0058	0.0022	0.0058	0.0234	0.0068	0.0472	2.3609	3.3309	3.7808	4.6352	#VALUE!	2.7744	3.6321
Coefficient of Variation (%)	0.04	2.19	21.30	0.77	0.35	0.92	0.78	0.11	2.24	5.03	5.07	7.98	8.10	#VALUE!	4.24	7.70
No. Specimens	23	23	24	23	23	23	23	23	23	20	20	20	20	23	20	20

**Notes:**  
NT=Not Tested  
NR=No Result  
NA=Not Applicable  
GE=Gage Error





**Laminate Compression After Impact Properties (CAI) -- (RTD)  
Summary**

Specimen Number	ACG Code	ACG Batch #	ACG Cure Cycle	Prepreg Lot #	Cure Cycle Batch #	Measured Impact Energy (in-lbf)	Strength [ksi]	Avg. Specimen Thickn. [in]	Failure Mode
CDKA111A	AITR1392-8HG-CAI1-A-MH1-RTD-1	A	MH1	1	1	249.21	23.081	0.158	LGM/ LAB
CDKA112A	AITR1392-8HG-CAI1-A-MH1-RTD-2	A	MH1	1	1	248.98	22.681	0.165	LGM/LAB
CDKA113A	AITR1392-8HG-CAI1-A-MH1-RTD-3	A	MH1	1	1	249.24	21.013	0.163	LAB
CDKA114A	AITR1392-8HG-CAI1-A-MH1-RTD-4	A	MH1	1	1	249.30	22.845	0.164	LGM/ LAB
CDKA115A	AITR1392-8HG-CAI1-A-MH1-RTD-5	A	MH1	1	1	248.74	22.725	0.160	LGM/ LAB
CDKA116A	AITR1392-8HG-CAI1-A-MH1-RTD-6	A	MH1	1	1	249.19	22.656	0.160	LAB
CDKA117A	AITR1392-8HG-CAI1-A-MH1-RTD-7	A	MH1	1	1	249.30	22.882	0.164	LGM/ LAB

Normalizing	
Cured Ply Thickness	Strength, ksi
0.00985	22.734
0.010333333	23.438
0.010166667	21.363
0.010252083	23.421
0.010028125	22.789
0.009982292	22.616
0.010244792	23.442

**Average 22.555**  
**Standard Dev. 0.695**  
**Coeff. of Var. [%] 3.083**  
**Min. 21.013**  
**Max. 23.081**  
**Number of Spec. 7**