Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	LT	M	CTD						

Test Group: AITR1392-IMU-LT-M-CTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: Longitudinal Tensile Condition: CTD

Test Method: MP1112 (ASTMD3039) Modulus/Poisson's Range: Chord 0.1% to 0.3%

ACG, Inc.
Material & Process Laboratory Report

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength (1), ksi		Modulus, Msi		Poisson's Ratio
							Measured	Normalized	Measured	Normalized	
AITR1392-IMU-LT-C-M2-CTD-1	10.064	1.0096	0.0908	0.0057	NT		365.144	376.693	22.72	23.437	NT
AITR1392-IMU-LT-C-M2-CTD-3	10.066	1.0016	0.0908	0.0057	NT		352.336	363.547	23.61	24.357	NT
AITR1392-IMU-LT-C-M2-CTD-4	10.066	1.0016	0.0903	0.0056	NT		374.514	384.302	22.35	22.934	NT
AITR1392-IMU-LT-C-M2-CTD-5	10.065	1.0022	0.0903	0.0056	NT				22.67	23.267	NT
Minimum	10.0636	1.0016	0.0903	0.0056			352.336	363.547	22.350	22.934	
Maximum	10.0661	1.0096	0.0908	0.0057			374.514	384.302	23.606	24.357	
Average	10.0649	1.0033	0.0905	0.0057			363.998	374.847	22.836	23.499	
Standard Deviation	0.0012	0.0035	0.0002	0.0000			11.133	10.500	0.539	0.609	
Coefficient of Variation (%)	0.01	0.35	0.27	0.27			3.06	2.80	2.36	2.59	
No. Specimens	5	5	5	5			3	3	4	4	

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

(1) Derived in accordance with AI/TR/1392 Table 3a , note (1)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	LT	M	RTD						

Test Group: AITR1392-IMU-LT-M-RTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: Longitudinal Tensile Condition: RTD

Test Method: MP1112 (ASTMD3039) Modulus/Poisson's Range: Chord 0.1% to 0.3%

ACG, Inc.
Material & Process Laboratory Report

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength (1), ksi		Modulus, Msi		Poisson's Ratio
							Measured	Normalized	Measured	Normalized	
AITR1392-IMU-LT-C-M2-RTD-1	10.065	1.0080	0.0903	0.0056	NT		359.651	369.119	22.19	22.773	NT
AITR1392-IMU-LT-C-M2-RTD-2	10.064	1.0088	0.0904	0.0057	NT		369.528	379.607	22.34	22.948	NT
AITR1392-IMU-LT-C-M2-RTD-3	10.064	1.0087	0.0903	0.0056	NT		374.179	384.030	22.45	23.039	NT
AITR1392-IMU-LT-C-M2-RTD-4	10.064	1.0088	0.0910	0.0057	NT		370.541	383.243	21.75	22.498	NT
AITR1392-IMU-LT-C-M2-RTD-5	10.064	1.0091	0.0907	0.0057	NT				22.78	23.475	NT
Minimum	10.0637	1.0080	0.0903	0.0056			359.651	369.119	21.752	22.498	
Maximum	10.0650	1.0091	0.0910	0.0057			374.179	384.030	22.780	23.475	
Average	10.0643	1.0087	0.0905	0.0057			368.475	379.000	22.302	22.947	
Standard Deviation	0.0005	0.0004	0.0003	0.0000			6.212	6.863	0.376	0.360	
Coefficient of Variation (%)	0.00	0.04	0.33	0.33			1.69	1.81	1.69	1.57	
No. Specimens	5	5	5	5			4	4	5	5	

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

(1) Derived in accordance with AI/TR/1392 Table 3a , note (1)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	LC	M	RTD						

Test Group: AITR1392-IMU-LC-M-RTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: Longitudinal Compression Condition: RTD

Test Method: MP1114 (ASTMD6641) Modulus/Poisson's Range: Chord 0.1% to 0.3%

ACG, Inc.
Material & Process Laboratory Report

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength (1), ksi		Modulus, Msi		Poisson's Ratio
							Measured	Normalized	Measured	Normalized	
AITR1392-IMU-LC-C-M1-RTD-1	5.503	0.5042	0.0869	0.0054	NT		172.899	170.737	20.49	20.230	0.311
AITR1392-IMU-LC-C-M1-RTD-2	5.500	0.5033	0.0852	0.0053	NT		196.215	189.972	21.88	21.186	0.345
AITR1392-IMU-LC-C-M1-RTD-3	5.501	0.5027	0.0872	0.0055	NT		198.237	196.434	20.55	20.358	0.336
AITR1392-IMU-LC-C-M1-RTD-4	5.502	0.5042	0.0862	0.0054	NT		193.631	189.597	20.72	20.285	0.337
AITR1392-IMU-LC-C-M2-RTD-1	5.500	0.5075	0.0863	0.0054	NT		176.536	173.025	21.40	20.971	0.358
AITR1392-IMU-LC-C-M2-RTD-2	5.499	0.5076	0.0892	0.0056	NT		147.408	149.363	19.74	20.003	0.393
AITR1392-IMU-LC-C-M2-RTD-3	5.497	0.5067	0.0871	0.0054	NT		188.637	186.601	19.98	19.761	0.330
AITR1392-IMU-LC-C-M2-RTD-4	5.501	0.5074	0.0868	0.0054	NT		166.449	164.085	21.73	21.421	0.342
Minimum	5.4951	0.5022	0.0852	0.0053			147.408	149.363	19.741	19.761	0.3110
Maximum	5.5027	0.5076	0.0892	0.0056			198.237	196.434	21.882	21.421	0.3930
Average	5.4999	0.5053	0.0869	0.0054			180.002	177.477	20.809	20.527	0.3440
Standard Deviation	0.0023	0.0022	0.0010	0.0001			17.583	15.949	0.789	0.594	0.0239
Coefficient of Variation (%)	0.04	0.43	1.17	1.17			9.77	8.99	3.79	2.89	6.95
No. Specimens	10	10	10	10			8	8	8	8	8

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

(1) Derived in accordance with AI/TR/1392 Table 3a , note (1)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	LC	M	ETW						

Test Group: AITR1392-IMU-LC-M-ETW

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: Longitudinal Compression Condition: ETW

Test Method: MP1114 (ASTMD6641) Modulus/Poisson's Range: Chord 0.1% to 0.3%

ACG, Inc.
Material & Process Laboratory Report

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength (1), ksi		Modulus, Msi		Poisson's Ratio
							Measured	Normalized	Measured	Normalized	
AITR1392-IMU-LC-C-M1-ETW-1	5.503	0.5017	0.0861	0.0054	NT		185.023	181.099	22.34	21.868	0.320
AITR1392-IMU-LC-C-M1-ETW-2	5.501	0.5022	0.0859	0.0054	NT		158.279	154.502	22.30	21.769	0.327
AITR1392-IMU-LC-C-M1-ETW-3	5.504	0.5023	0.0861	0.0054	NT		168.356	164.657	27.76	27.146	0.391
AITR1392-IMU-LC-C-M1-ETW-4	5.501	0.5033	0.0852	0.0053	NT		159.186	154.061	22.38	21.659	0.364
AITR1392-IMU-LC-C-M1-ETW-5	5.502	0.5027	0.0854	0.0053	NT		169.452	164.510	23.71	23.021	0.326
AITR1392-IMU-LC-C-M2-ETW-1	5.501	0.5074	0.0877	0.0055	NT		150.047	149.592	26.10	26.025	0.403
AITR1392-IMU-LC-C-M2-ETW-3	5.502	0.5076	0.0880	0.0055	NT		150.239	150.296	21.10	21.111	0.268
AITR1392-IMU-LC-C-M2-ETW-4	5.501	0.5068	0.0868	0.0054	NT		145.005	143.000	22.15	21.846	0.302
AITR1392-IMU-LC-C-M2-ETW-5	5.501	0.5063	0.0877	0.0055	NT		154.572	154.016	23.71	23.628	0.482
Minimum	5.5009	0.5017	0.0852	0.0053			145.005	143.000	21.103	21.111	0.2680
Maximum	5.5036	0.5076	0.0880	0.0055			185.023	181.099	27.756	27.146	0.4820
Average	5.5016	0.5048	0.0865	0.0054			160.018	157.304	23.507	23.119	0.3537
Standard Deviation	0.0009	0.0025	0.0010	0.0001			12.438	11.261	2.138	2.124	0.0642
Coefficient of Variation (%)	0.02	0.50	1.16	1.16			7.77	7.16	9.10	9.19	18.17
No. Specimens	10	10	10	10			9	9	9	9	9

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

(1) Derived in accordance with AI/TR/1392 Table 3a , note (1)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	TT	M	CTD						

Test Group: AITR1392-IMU-TT-M-CTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: Transverse Tensile Condition: CTD

Test Method: MP1112 (ASTMD3039) Modulus/Poisson's Range: Chord 0.1% to 0.3%

ACG, Inc.
Material & Process
Laboratory Report

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-IMU-TT-C-M1-CTD-1	10.028	1.0075	0.0834	0.0052	640.00	LGM	7.620	7.218	1.36	1.286	NT
AITR1392-IMU-TT-C-M1-CTD-2	10.011	1.0075	0.0844	0.0053	661.00	LGM	7.777	7.455	1.34	1.284	NT
AITR1392-IMU-TT-C-M1-CTD-3	10.016	1.0074	0.0838	0.0052	657.00	LGM	7.785	7.411	1.36	1.297	NT
AITR1392-IMU-TT-C-M1-CTD-4	10.036	1.0077	0.0841	0.0053	718.00	LAB	8.469	8.097	1.33	1.273	NT
AITR1392-IMU-TT-C-M2-CTD-1	10.078	1.0015	0.0824	0.0052	413.00	LGT	5.004	4.686	1.37	1.287	NT
AITR1392-IMU-TT-C-M2-CTD-2	10.073	1.0018	0.0832	0.0052	409.00	LGM	4.910	4.639	1.34	1.268	NT
AITR1392-IMU-TT-C-M2-CTD-3	10.074	1.0015	0.0832	0.0052	426.00	LGM	5.113	4.834	1.34	1.263	NT
AITR1392-IMU-TT-C-M2-CTD-4	10.073	1.0013	0.0828	0.0052	400.00	LGM	4.823	4.540	1.28	1.203	NT
Minimum	9.9987	1.0013	0.0824	0.0052	400.00		4.823	4.540	1.278	1.203	
Maximum	10.0781	1.0077	0.0844	0.0053	718.00		8.469	8.097	1.374	1.297	
Average	10.0461	1.0046	0.0834	0.0052	540.50		6.437	6.110	1.340	1.270	
Standard Deviation	0.0312	0.0032	0.0007	0.0000	139.33		1.598	1.557	0.029	0.029	
Coefficient of Variation (%)	0.31	0.31	0.82	0.82	25.78		24.83	25.48	2.17	2.31	
No. Specimens	10	10	10	10	8		8	8	8	8	

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

FORM MP1112 (ASTMD3039)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	TT	M	RTD						

Test Group: AITR1392-IMU-TT-M-RTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: Transverse Tensile Condition: RTD

Test Method: MP1112 (ASTMD3039) Modulus/Poisson's Range: Chord 0.1% to 0.3%

ACG, Inc.
Material & Process
Laboratory Report

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-IMU-TT-C-M1-RTD-1	10.002	1.0067	0.0830	0.0052	601.00	LGT	7.195	6.784	1.30	1.227	NT
AITR1392-IMU-TT-C-M1-RTD-2	10.013	1.0060	0.0852	0.0053	605.00	LGM	7.059	6.834	1.27	1.226	NT
AITR1392-IMU-TT-C-M1-RTD-3	10.000	1.0078	0.0848	0.0053	734.00	LWT	8.592	8.276	1.28	1.233	NT
AITR1392-IMU-TT-C-M1-RTD-4	10.006	1.0080	0.0840	0.0053	432.00	LGM	5.100	4.870	1.26	1.204	NT
AITR1392-IMU-TT-C-M1-RTD-5	10.024	1.0074	0.0838	0.0052	FM	LIT			1.31		NT
AITR1392-IMU-TT-C-M2-RTD-1	10.066	1.0052	0.0831	0.0052	392.00	LGM	4.691	4.432	1.27	1.197	NT
AITR1392-IMU-TT-C-M2-RTD-2	10.064	1.0047	0.0830	0.0052	372.00	LWB	4.459	4.208	1.28	1.203	NT
AITR1392-IMU-TT-C-M2-RTD-3	10.080	1.0052	0.0828	0.0052	383.00	LWT	4.601	4.330	1.28	1.205	NT
AITR1392-IMU-TT-C-M2-RTD-5	10.073	1.0056	0.0833	0.0052	369.00	LGM	4.407	4.170	1.26	1.191	NT
Minimum	9.9997	1.0047	0.0828	0.0052	369.00		4.407	4.170	1.259	1.191	
Maximum	10.0800	1.0080	0.0852	0.0053	734.00		8.592	8.276	1.312	1.233	
Average	10.0397	1.0062	0.0836	0.0052	486.00		5.763	5.488	1.278	1.211	
Standard Deviation	0.0334	0.0012	0.0008	0.0001	140.38		1.613	1.580	0.018	0.015	
Coefficient of Variation (%)	0.33	0.12	0.99	0.99	28.88		27.99	28.80	1.42	1.28	
No. Specimens	10	10	10	10	8		8	8	9	8	

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

M2-4 DID NOT REGISTER WITH TEST FRAME

FORM MP1112 (ASTMD3039)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	TT	M	ETW						

Test Group: AITR1392-IMU-TT-M-ETW

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: Transverse Tensile Condition: ETW

Test Method: MP1112 (ASTMD3039) Modulus/Poisson's Range: Chord 0.1% to 0.3%

ACG, Inc.
Material & Process
Laboratory Report

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-IMU-TT-C-M1-ETW-1	10.028	1.0073	0.0837	0.0052	565.00	LWB	6.698	6.374	1.03	0.975	NT
AITR1392-IMU-TT-C-M1-ETW-2	10.028	1.0073	0.0851	0.0053	570.00	LGM	6.650	6.431	1.02	0.989	NT
AITR1392-IMU-TT-C-M1-ETW-3	10.034	1.0073	0.0848	0.0053	555.00	LGT	6.500	6.261	1.01	0.976	NT
AITR1392-IMU-TT-C-M1-ETW-4	10.015	1.0067	0.0835	0.0052	503.00	LGT	5.984	5.678	1.03	0.973	NT
AITR1392-IMU-TT-C-M2-ETW-1	10.069	1.0028	0.0830	0.0052	377.00	LGT	4.531	4.272	1.01	0.953	NT
AITR1392-IMU-TT-C-M2-ETW-2	10.072	1.0021	0.0825	0.0052	393.00	LWT	4.753	4.456	1.02	0.953	NT
AITR1392-IMU-TT-C-M2-ETW-3	10.076	1.0026	0.0826	0.0052	392.00	LAT	4.732	4.443	1.02	0.958	NT
AITR1392-IMU-TT-C-M2-ETW-4	10.068	1.0007	0.0829	0.0052	381.00	LAB	4.594	4.327	1.10	1.031	NT
Minimum	10.0150	1.0007	0.0825	0.0052	377.00		4.531	4.272	1.011	0.953	
Maximum	10.0849	1.0073	0.0852	0.0053	570.00		6.698	6.431	1.095	1.031	
Average	10.0497	1.0044	0.0836	0.0052	467.00		5.555	5.280	1.029	0.976	
Standard Deviation	0.0264	0.0027	0.0010	0.0001	89.32		0.991	0.996	0.027	0.026	
Coefficient of Variation (%)	0.26	0.27	1.25	1.25	19.13		17.84	18.86	2.66	2.64	
No. Specimens	10	10	10	10	8		8	8	8	8	

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

FORM MP1112 (ASTMD3039)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	TC	M	RTD						

Test Group: AITR1392-IMU-TC-M-RTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: Transverse Compression Condition: RTD

Test Method: MP1114 (ASTMD6641) Modulus/Poisson's Range: Chord 0.1% to 0.3%

ACG, Inc.
Material & Process
Laboratory Report

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-IMU-TC-C-M1-RTD-1	5.498	0.5027	0.0874	0.0055	1151.00	HGB/LGT	26.212	26.019	1.23	1.224	0.013
AITR1392-IMU-TC-C-M1-RTD-2	5.498	0.5032	0.0873	0.0055	1158.00	HGB	26.371	26.151	1.24	1.234	0.011
AITR1392-IMU-TC-C-M1-RTD-3	5.498	0.5029	0.0872	0.0055	1140.00	BGM	25.984	25.758	1.27	1.261	0.012
AITR1392-IMU-TC-C-M1-RTD-4	5.497	0.5009	0.0871	0.0054	1186.00	HGB	27.181	26.908	1.16	1.145	0.011
AITR1392-IMU-TC-C-M2-RTD-1	5.502	0.5052	0.0880	0.0055	628.00	BGT	14.120	14.125	1.20	1.200	0.007
AITR1392-IMU-TC-C-M2-RTD-2	5.502	0.5053	0.0883	0.0055	643.00	HGB	14.412	14.461	1.18	1.181	0.010
AITR1392-IMU-TC-C-M2-RTD-3	5.502	0.5054	0.0884	0.0055	668.00	BGT	14.946	15.020	1.20	1.201	0.009
AITR1392-IMU-TC-C-M2-RTD-4	5.502	0.5050	0.0885	0.0055	691.00	BGT	15.467	15.549	1.21	1.219	0.007
Minimum	5.4971	0.5009	0.0857	0.0054	628.00		14.120	14.125	1.157	1.145	0.0070
Maximum	5.5022	0.5054	0.0887	0.0055	1186.00		27.181	26.908	1.272	1.261	0.0130
Average	5.4997	0.5039	0.0877	0.0055	908.13		20.587	20.499	1.211	1.208	0.0100
Standard Deviation	0.0020	0.0015	0.0009	0.0001	268.85		6.276	6.127	0.037	0.035	0.0022
Coefficient of Variation (%)	0.04	0.30	1.04	1.04	29.61		30.48	29.89	3.08	2.90	22.04
No. Specimens	10	10	10	10	8		8	8	8	8	8

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

FORM MP1114 (ASTMD6641)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	TC	M	ETW						

Test Group: AITR1392-IMU-TC-M-ETW

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: Transverse Compression Condition: ETW

Test Method: MP1114 (ASTMD6641) Modulus/Poisson's Range: Chord 0.1% to 0.3%

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Laboratory Report

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-IMU-TC-C-M1-ETW-1	5.500	0.5021	0.0869	0.0054	694.00	HGM	15.908	15.706	1.08	1.061	0.011
AITR1392-IMU-TC-C-M1-ETW-2	5.496	0.5025	0.0876	0.0055	697.00	HGM	15.841	15.763	1.10	1.096	0.012
AITR1392-IMU-TC-C-M1-ETW-4	5.498	0.5016	0.0870	0.0054	680.00	HGM/HGB	15.583	15.406	1.19	1.175	0.012
AITR1392-IMU-TC-C-M1-ETW-5	5.495	0.5013	0.0859	0.0054	656.00	HGM	15.238	14.871	GE		GE
AITR1392-IMU-TC-C-M2-ETW-1	5.501	0.5070	0.0886	0.0055	389.00	HGM	8.658	8.718	1.18	1.192	GE
AITR1392-IMU-TC-C-M2-ETW-2	5.501	0.5009	0.0886	0.0055	464.00	HGT	10.461	10.527	1.08	1.084	0.008
AITR1392-IMU-TC-C-M2-ETW-3	5.498	0.5047	0.0888	0.0055	399.00	HGT	8.904	8.984	GE		GE
AITR1392-IMU-TC-C-M2-ETW-4	5.501	0.5058	0.0887	0.0055	424.00	HGM	9.453	9.526	GE		GE
AITR1392-IMU-TC-C-M2-ETW-5	5.500	0.5059	0.0885	0.0055	386.00	HGT	8.620	8.671	GE		GE
Minimum	5.4949	0.5009	0.0859	0.0054	386.00		8.620	8.671	1.075	1.061	0.0080
Maximum	5.5012	0.5070	0.0888	0.0055	697.00		15.908	15.763	1.189	1.192	0.0120
Average	5.4986	0.5035	0.0878	0.0055	532.11		12.074	12.019	1.125	1.122	0.0108
Standard Deviation	0.0023	0.0022	0.0010	0.0001	144.26		3.434	3.297	0.057	0.058	0.0019
Coefficient of Variation (%)	0.04	0.43	1.15	1.15	27.11		28.44	27.43	5.06	5.21	17.61
No. Specimens	10	10	10	10	9		9	9	5	5	4

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

FORM MP1114 (ASTMD6641)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	UNT0	M	CTD						

Test Group: AITR1392-IMU-UNT0-M-CTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: 0/90 Unnotched Tensile Condition: CTD

Test Method: MP1112 (ASTMD3039) Modulus/Poisson's Range: Chord 0.1% to 0.3%

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Laboratory Report

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-IMU-UNT0-C-M1-CTD-1	10.049	1.0068	0.0878	0.0055	17227.00	DGM/DAT/DAB	194.963	194.446	11.83	11.797	NT
AITR1392-IMU-UNT0-C-M1-CTD-2	10.025	1.0082	0.0873	0.0055	18159.00	DGM	206.387	204.667	12.92	12.807	NT
AITR1392-IMU-UNT0-C-M1-CTD-3	10.018	1.0075	0.0872	0.0054	18153.00	DGM	206.713	204.755	12.55	12.429	NT
AITR1392-IMU-UNT0-C-M1-CTD-4	10.022	1.0075	0.0867	0.0054	17045.00	DGB/LAT	195.053	192.245	12.03	11.858	NT
AITR1392-IMU-UNT0-C-M2-CTD-1	10.064	1.0035	0.0857	0.0054	16868.00	DGM/LWT/LAB	196.102	191.013	11.82	11.511	NT
AITR1392-IMU-UNT0-C-M2-CTD-2	10.062	1.0027	0.0857	0.0054	17315.00	DGM/LWB/LAT	201.452	196.225	12.58	12.257	NT
AITR1392-IMU-UNT0-C-M2-CTD-3	10.066	1.0010	0.0853	0.0053	16160.00	DGM	189.223	183.453	12.09	11.717	NT
AITR1392-IMU-UNT0-C-M2-CTD-4	10.064	1.0017	0.0868	0.0054	17492.00	DGM	201.133	198.429	12.30	12.138	NT
Minimum	10.0177	0.9999	0.0853	0.0053	16160.00		189.223	183.453	11.818	11.511	
Maximum	10.0656	1.0082	0.0878	0.0055	18159.00		206.713	204.755	12.915	12.807	
Average	10.0458	1.0046	0.0865	0.0054	17302.38		198.878	195.654	12.264	12.064	
Standard Deviation	0.0209	0.0032	0.0008	0.0000	661.07		6.099	7.127	0.393	0.426	
Coefficient of Variation (%)	0.21	0.32	0.89	0.89	3.82		3.07	3.64	3.21	3.53	
No. Specimens	10	10	10	10	8		8	8	8	8	

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

FORM MP1112 (ASTMD3039)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	UNT0	M	RTD						

Test Group: AITR1392-IMU-UNT0-M-RTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: 0/90 Unnotched Tensile Condition: RTD

Test Method: MP1112 (ASTMD3039) Modulus/Poisson's Range: Chord 0.1% to 0.3%

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Laboratory Report

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-IMU-UNT0-C-M1-RTD-1	10.023	1.0046	0.0867	0.0054	17188.00	DGT/DGB	197.339	194.424	12.40	12.220	NT
AITR1392-IMU-UNT0-C-M1-RTD-2	10.024	1.0072	0.0869	0.0054	16756.00	LAB/LAT	191.514	189.048	9.96	9.836	NT
AITR1392-IMU-UNT0-C-M1-RTD-3	10.024	1.0071	0.0862	0.0054	17558.00	DGM	202.168	198.110	12.56	12.310	NT
AITR1392-IMU-UNT0-C-M1-RTD-4	10.022	1.0075	0.0868	0.0054	17136.00	DGM	196.019	193.271	12.28	12.104	NT
AITR1392-IMU-UNT0-C-M2-RTD-1	10.064	1.0034	0.0869	0.0054	16947.00	DGM	194.437	191.933	12.34	12.178	NT
AITR1392-IMU-UNT0-C-M2-RTD-2	10.063	1.0024	0.0860	0.0054	17216.00	DAT/DAB	199.778	195.161	12.03	11.751	NT
AITR1392-IMU-UNT0-C-M2-RTD-3	10.065	1.0035	0.0864	0.0054	17533.00	DGM	202.292	198.537	12.52	12.284	NT
AITR1392-IMU-UNT0-C-M2-RTD-4	10.064	1.0035	0.0868	0.0054	17439.00	DGM	200.325	197.479	12.37	12.192	NT
Minimum	10.0221	1.0024	0.0860	0.0054	16756.00		191.514	189.048	9.964	9.836	
Maximum	10.0652	1.0079	0.0872	0.0055	17558.00		202.292	198.537	12.562	12.310	
Average	10.0435	1.0050	0.0867	0.0054	17221.63		197.984	194.745	12.057	11.859	
Standard Deviation	0.0217	0.0022	0.0004	0.0000	282.36		3.845	3.295	0.861	0.836	
Coefficient of Variation (%)	0.22	0.22	0.42	0.42	1.64		1.94	1.69	7.14	7.05	
No. Specimens	10	10	10	10	8		8	8	8	8	

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

FORM MP1112 (ASTMD3039)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	UNC0	M	RTD						

Test Group: AITR1392-IMU-UNC0-M-RTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: 90/0 Compression Condition: RTD

Test Method: MP1114 (ASTMD6641) Modulus/Poisson's Range: Chord 0.1% to 0.3%

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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-IMU-UNC0-C-M1-RTD-1	5.498	0.5027	0.0883	0.0055	3891.00	BGT	87.664	87.963	11.02	11.054	0.030
AITR1392-IMU-UNC0-C-M1-RTD-2	5.499	0.5027	0.0865	0.0054	4326.00	HIT/BGT	99.486	97.790	10.41	10.234	0.040
AITR1392-IMU-UNC0-C-M1-RTD-3	5.496	0.5036	0.0872	0.0054	4411.00	HIT/BGT	100.511	99.540	10.36	10.258	0.034
AITR1392-IMU-UNC0-C-M1-RTD-4	5.497	0.5030	0.0864	0.0054	4268.00	HGT	98.176	96.428	10.42	10.231	0.017
AITR1392-IMU-UNC0-C-M1-RTD-5	5.499	0.5031	0.0879	0.0055	4424.00	BGT	100.021	99.926	11.12	11.112	0.022
AITR1392-IMU-UNC0-C-M2-RTD-1	5.499	0.4958	0.0901	0.0056	3998.00	BGM	89.508	91.627	9.66	9.889	0.027
AITR1392-IMU-UNC0-C-M2-RTD-2	5.498	0.4954	0.0897	0.0056	3320.00	BGT	74.740	76.155	11.07	11.277	0.031
AITR1392-IMU-UNC0-C-M2-RTD-3	5.501	0.4956	0.0897	0.0056	4250.00	BGM	95.644	97.455	10.04	10.226	0.031
AITR1392-IMU-UNC0-C-M2-RTD-4	5.501	0.4961	0.0896	0.0056	3753.00	BGM	84.394	85.960	10.77	10.967	0.016
AITR1392-IMU-UNC0-C-M2-RTD-5	5.498	0.4961	0.0895	0.0056	3902.00	0.000	87.881	89.379	10.65	10.836	0.023
Minimum	5.4955	0.4954	0.0864	0.0054	3320.00		74.740	76.155	9.660	9.889	0.0160
Maximum	5.5011	0.5036	0.0901	0.0056	4424.00		100.511	99.926	11.123	11.277	0.0400
Average	5.4986	0.4994	0.0885	0.0055	4054.30		91.802	92.222	10.551	10.608	0.0271
Standard Deviation	0.0016	0.0038	0.0014	0.0001	350.35		8.443	7.549	0.472	0.489	0.0076
Coefficient of Variation (%)	0.03	0.76	1.60	1.60	8.64		9.20	8.19	4.47	4.61	28.07
No. Specimens	10	10	10	10	10		10	10	10	10	10

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

FORM MP1114 (ASTMD6641)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition						
	AITR	1392	IMU	UNC0	M	ETW						

Test Group: AITR1392-IMU-UNC0-M-ETW

Material: **MTM45-1/IM7-145-32%RW** Normalization: Cured Ply Thickness: 0.0055 #Plies: 16

Test Type: 90/0 Compression Condition: ETW

Test Method: MP1114 (ASTMD6641) Modulus/Poisson's Range: Chord 0.1% to 0.3%

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Laboratory Report

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-IMU-UNC0-C-M1-ETW-1	5.498	0.5033	0.0877	0.0055	3902.00	HIT/BGT	88.385	88.100	11.43	11.397	0.038
AITR1392-IMU-UNC0-C-M1-ETW-2	5.499	0.5035	0.0869	0.0054	3308.00	BGT	75.609	74.664	11.27	11.124	0.027
AITR1392-IMU-UNC0-C-M1-ETW-3	5.497	0.5030	0.0876	0.0055	3545.00	HIB/BGB	80.423	80.088	GE		GE
AITR1392-IMU-UNC0-C-M1-ETW-4	5.498	0.5041	0.0872	0.0054	3342.00	BGB	76.042	75.337	11.41	11.304	0.045
AITR1392-IMU-UNC0-C-M1-ETW-5	5.498	0.5031	0.0881	0.0055	3586.00	HIT/BGB	80.946	80.992	11.04		0.023
AITR1392-IMU-UNC0-C-M2-ETW-1	5.502	0.4962	0.0894	0.0056	3181.00	BGB	71.677	72.844	11.13	11.309	0.033
AITR1392-IMU-UNC0-C-M2-ETW-2	5.500	0.4956	0.0904	0.0056	2832.00	BGT	63.223	64.935	12.42	12.757	0.048
AITR1392-IMU-UNC0-C-M2-ETW-3	5.501	0.4960	0.0899	0.0056	3201.00	BGB	71.769	73.332	10.83	11.069	0.019
AITR1392-IMU-UNC0-C-M2-ETW-4	5.500	0.4961	0.0902	0.0056	3100.00	BGB	69.268	71.013	10.31	10.565	0.028
AITR1392-IMU-UNC0-C-M2-ETW-5	5.498	0.4956	0.0891	0.0056	3262.00	HIT/BGB	73.839	74.790	GE		0.057
Minimum	5.4974	0.4956	0.0869	0.0054	2832.00		63.223	64.935	10.305	10.565	0.0190
Maximum	5.5021	0.5041	0.0904	0.0056	3902.00		88.385	88.100	12.421	12.757	0.0570
Average	5.4991	0.4997	0.0887	0.0055	3325.90		75.118	75.610	11.229	11.361	0.0353
Standard Deviation	0.0016	0.0040	0.0013	0.0001	295.10		6.989	6.277	0.604	0.675	0.0126
Coefficient of Variation (%)	0.03	0.79	1.47	1.47	8.87		9.30	8.30	5.38	5.94	35.77
No. Specimens	10	10	10	10	10		10	10	8	7	9

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

FORM MP1114 (ASTMD6641)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition				
	AITR	1392	IMU	IPS	M	CTD				

Test Group: AITR1392-IMU-IPS-M-CTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: NA Cured Ply Thickness: 0.0055

Test Type: ±45° In Plane Shear Condition: CTD #Plies: 8

Test Method: MP1115 (ASTMD3518) Modulus/Poisson's Range: Chord 0.2% to 0.6%

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Laboratory Report

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-IMU-IPS-C-M1-CTD-1	10.077	1.0014	0.0462	0.0058		9.380	12.910	NT	0.603
AITR1392-IMU-IPS-C-M1-CTD-2	10.077	1.0010	0.0466	0.0058		8.791	12.900	NT	0.623
AITR1392-IMU-IPS-C-M1-CTD-3	10.083	1.0010	0.0460	0.0058		8.565	12.780	NT	0.627
AITR1392-IMU-IPS-C-M1-CTD-4	10.073	1.0006	0.0464	0.0058		9.003	13.030	NT	0.637
AITR1392-IMU-IPS-C-M1-CTD-5	10.076	1.0004	0.0463	0.0058		8.889	12.880	NT	0.595
AITR1392-IMU-IPS-C-M2-CTD-1	10.068	1.0038	0.0467	0.0058		6.990	11.280	NT	0.577
AITR1392-IMU-IPS-C-M2-CTD-2	10.064	1.0038	0.0470	0.0059		7.941	10.460	NT	0.563
AITR1392-IMU-IPS-C-M2-CTD-3	10.070	1.0039	0.0473	0.0059		7.644	11.080	NT	0.574
AITR1392-IMU-IPS-C-M2-CTD-4	10.068	1.0038	0.0471	0.0059		7.380	10.560	NT	0.594
AITR1392-IMU-IPS-C-M2-CTD-5	10.066	1.0038	0.0471	0.0059		7.590	10.710	NT	0.565
Minimum	10.0642	1.0004	0.0460	0.0058		6.990	10.460		0.563
Maximum	10.0831	1.0039	0.0473	0.0059		9.380	13.030		0.637
Average	10.0722	1.0024	0.0467	0.0058		8.217	11.859		0.596
Standard Deviation	0.0060	0.0016	0.0004	0.0001		0.808	1.123		0.026
Coefficient of Variation (%)	0.06	0.16	0.95	0.95		9.83	9.47		4.45
No. Specimens	10	10	10	10		10	10		10

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	IMU	IPS	M	RTD				

Test Group: AITR1392-IMU-IPS-M-RTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: NA Cured Ply Thickness: 0.0055

Test Type: ±45° In Plane Shear Condition: RTD #Plies: 8

Test Method: MP1115 (ASTMD3518) Modulus/Poisson's Range: Chord 0.2% to 0.6%

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Laboratory Report

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-IMU-IPS-C-M1-RTD-1	10.077	1.0004	0.0461	0.0058		6.495	9.290	9.921	0.444
AITR1392-IMU-IPS-C-M1-RTD-2	10.078	0.9995	0.0464	0.0058		6.317	9.200	9.768	0.451
AITR1392-IMU-IPS-C-M1-RTD-3	10.078	1.0005	0.0462	0.0058		6.192	9.240	9.990	0.488
AITR1392-IMU-IPS-C-M1-RTD-4	10.077	1.0007	0.0460	0.0057		6.245	9.380	10.009	0.482
AITR1392-IMU-IPS-C-M2-RTD-1	10.069	1.0034	0.0465	0.0058		5.695	7.950	8.601	0.432
AITR1392-IMU-IPS-C-M2-RTD-2	10.070	1.0042	0.0469	0.0059		5.696	7.940	8.354	0.445
AITR1392-IMU-IPS-C-M2-RTD-3	10.078	1.0035	0.0467	0.0058		5.682	8.030	8.654	0.439
AITR1392-IMU-IPS-C-M2-RTD-4	10.071	1.0037	0.0470	0.0059		4.106	8.180	9.914	0.266
Minimum	10.0694	0.9995	0.0456	0.0057		4.106	7.940	8.354	0.266
Maximum	10.0779	1.0042	0.0470	0.0059		6.495	9.380	10.009	0.488
Average	10.0752	1.0020	0.0463	0.0058		5.804	8.651	9.401	0.431
Standard Deviation	0.0037	0.0018	0.0004	0.0001		0.757	0.675	0.725	0.070
Coefficient of Variation (%)	0.04	0.18	0.93	0.93		13.04	7.81	7.71	16.15
No. Specimens	10	10	10	10		8	8	8	8

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	IMU	IPS	M	ETW				

Test Group: AITR1392-IMU-IPS-M-ETW

Material: **MTM45-1/IM7-145-32%RW** Normalization: NA Cured Ply Thickness: 0.0055

Test Type: ±45° In Plane Shear Condition: ETW #Plies: 8

Test Method: MP1115 (ASTMD3518) Modulus/Poisson's Range: Chord 0.2% to 0.6%

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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-IMU-IPS-C-M1-ETW-1	10.079	1.0008	0.0464	0.0058		3.833	5.480	NT	0.328
AITR1392-IMU-IPS-C-M1-ETW-2	10.078	1.0014	0.0465	0.0058		3.784	5.520	NT	0.321
AITR1392-IMU-IPS-C-M1-ETW-3	10.078	1.0013	0.0459	0.0057		3.953	5.620	NT	0.346
AITR1392-IMU-IPS-C-M1-ETW-4	10.078	1.0007	0.0463	0.0058		3.819	5.400	NT	0.321
AITR1392-IMU-IPS-C-M2-ETW-1	10.069	1.0033	0.0472	0.0059		3.452	4.870	NT	0.262
AITR1392-IMU-IPS-C-M2-ETW-2	10.070	1.0033	0.0468	0.0059		3.393	4.920	NT	0.294
AITR1392-IMU-IPS-C-M2-ETW-3	10.070	1.0036	0.0471	0.0059		3.368	4.800	NT	0.256
AITR1392-IMU-IPS-C-M2-ETW-4	10.068	1.0032	0.0465	0.0058		3.456	4.820	NT	0.286
Minimum	10.0676	1.0007	0.0459	0.0057		3.368	4.800		0.256
Maximum	10.0817	1.0036	0.0472	0.0059		3.953	5.620		0.346
Average	10.0749	1.0021	0.0465	0.0058		3.632	5.179		0.302
Standard Deviation	0.0050	0.0012	0.0004	0.0001		0.237	0.356		0.032
Coefficient of Variation (%)	0.05	0.12	0.88	0.88		6.51	6.87		10.75
No. Specimens	10	10	10	10		8	8		8

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	IMU	SBS	M	CTD			

Test Group: AITR1392-IMU-SBS-M-CTD

Material: **MTM45-1/IM7-145-32%RW** Normalizatio Cured Ply Thickness: 0.0055

Test Type: Short Beam Shear Condition: CTD #Plies: 16

Test Method: MP1116 (ASTMD2344) Span (4t): 0.35

ACG, Inc.
Material & Process
Laboratory Report

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi	
							Measured	Normalized
AITR1392-IMU-SBS-C-M1-CTD-1	0.540	0.2540	0.0858	0.0054	515.00	ILS	17.730	17.280
AITR1392-IMU-SBS-C-M1-CTD-2	0.543	0.2533	0.0887	0.0055	510.00	ILS	17.029	17.158
AITR1392-IMU-SBS-C-M1-CTD-3	0.545	0.2495	0.0870	0.0054	532.00	ILS	18.382	18.173
AITR1392-IMU-SBS-C-M1-CTD-4	0.542	0.2505	0.0890	0.0056	554.00	ILS	18.644	18.849
AITR1392-IMU-SBS-C-M2-CTD-1	0.537	0.2525	0.0878	0.0055	546.00	ILS	18.471	18.429
AITR1392-IMU-SBS-C-M2-CTD-2	0.538	0.2540	0.0871	0.0054	535.00	ILS	18.137	17.951
AITR1392-IMU-SBS-C-M2-CTD-3	0.540	0.2530	0.0856	0.0053	526.00	ILS	18.223	17.719
AITR1392-IMU-SBS-C-M2-CTD-4	0.539	0.2530	0.0865	0.0054	554.00	ILS	18.993	18.662
Minimum	0.5315	0.2495	0.0844	0.0053	510.00		17.029	17.158
Maximum	0.5450	0.2540	0.0890	0.0056	554.00		18.993	18.849
Average	0.5392	0.2526	0.0869	0.0054	534.00		18.201	18.028
Standard Deviation	0.0036	0.0015	0.0014	0.0001	16.69		0.601	0.618
Coefficient of Variation (%)	0.67	0.61	1.61	1.61	3.13		3.30	3.43
No. Specimens	10	10	10	10	8		8	8

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

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition			
	AITR	1392	IMU	SBS	M	RTD			

Test Group: AITR1392-IMU-SBS-M-RTD

Material: **MTM45-1/IM7-145-32%RW** Normalizatio Cured Ply Thickness: 0.0055

Test Type: Short Beam Shear Condition: RTD #Plies: 16

Test Method: MP1116 (ASTMD2344) Span (4t): 0.35

ACG, Inc.
Material & Process
Laboratory Report

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi	
							Measured	Normalized
AITR1392-IMU-SBS-C-M1-RTD-1	0.539	0.2525	0.0864	0.0054	382.00	ILS	13.133	12.894
AITR1392-IMU-SBS-C-M1-RTD-2	0.537	0.2520	0.0878	0.0055	406.00	ILS	13.762	13.731
AITR1392-IMU-SBS-C-M1-RTD-3	0.539	0.2490	0.0864	0.0054	405.00	ILS	14.124	13.862
AITR1392-IMU-SBS-C-M1-RTD-4	0.540	0.2528	0.0886	0.0055	405.00	ILS	13.555	13.652
AITR1392-IMU-SBS-C-M2-RTD-1	0.537	0.2520	0.0884	0.0055	402.00	ILS	13.539	13.596
AITR1392-IMU-SBS-C-M2-RTD-2	0.544	0.2530	0.0880	0.0055	382.00	ILS	12.868	12.868
AITR1392-IMU-SBS-C-M2-RTD-3	0.537	0.2520	0.0891	0.0056	399.00	ILS	13.333	13.494
AITR1392-IMU-SBS-C-M2-RTD-4	0.532	0.2530	0.0862	0.0054	380.00	ILS	13.068	12.801
Minimum	0.5315	0.2490	0.0861	0.0054	380.00		12.868	12.801
Maximum	0.5435	0.2530	0.0891	0.0056	406.00		14.124	13.862
Average	0.5379	0.2521	0.0874	0.0055	395.13		13.423	13.362
Standard Deviation	0.0030	0.0012	0.0011	0.0001	11.64		0.408	0.434
Coefficient of Variation (%)	0.55	0.46	1.28	1.28	2.95		3.04	3.25
No. Specimens	10	10	10	10	8		8	8

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

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition			
	AITR	1392	IMU	SBS	M	ETD			

Test Group: AITR1392-IMU-SBS-M-ETD

Material: **MTM45-1/IM7-145-32%RW** Normalizatio Cured Ply Thickness: 0.0055

Test Type: Short Beam Shear Condition: ETD #Plies: 16

Test Method: MP1116 (ASTMD2344) Span (4t): 0.35

ACG, Inc.
Material & Process
Laboratory Report

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi	
							Measured	Normalized
AITR1392-IMU-SBS-C-M1-ETD-1	0.541	0.2520	0.0882	0.0055	279.00	ILS/ILD	9.414	9.436
AITR1392-IMU-SBS-C-M1-ETD-2	0.541	0.2527	0.0870	0.0054	290.00	ILS/ILD	9.891	9.782
AITR1392-IMU-SBS-C-M1-ETD-3	0.540	0.2500	0.0881	0.0055	293.00	ILS/ILD	9.977	9.989
AITR1392-IMU-SBS-C-M1-ETD-4	0.538	0.2525	0.0857	0.0054	287.00	ILS/ILD	9.947	9.687
AITR1392-IMU-SBS-C-M2-ETD-1	0.541	0.2520	0.0865	0.0054	286.00	ILS/ILD	9.840	9.673
AITR1392-IMU-SBS-C-M2-ETD-2	0.536	0.2510	0.0850	0.0053	280.00	ILS/ILD	9.847	9.507
AITR1392-IMU-SBS-C-M2-ETD-3	0.533	0.2525	0.0847	0.0053	274.00	ILS/ILD	9.605	9.248
AITR1392-IMU-SBS-C-M2-ETD-4	0.540	0.2515	0.0857	0.0054	277.00	ILS/ILD	9.639	9.387
Minimum	0.5330	0.2500	0.0847	0.0053	274.00		9.414	9.248
Maximum	0.5405	0.2530	0.0882	0.0055	293.00		9.977	9.989
Average	0.5382	0.2517	0.0863	0.0054	283.25		9.770	9.589
Standard Deviation	0.0030	0.0011	0.0013	0.0001	6.71		0.197	0.239
Coefficient of Variation (%)	0.55	0.43	1.45	1.45	2.37		2.01	2.49
No. Specimens	10	10	10	10	8		8	8

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

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition			
	AITR	1392	IMU	SBS	M	ETW			

Test Group: AITR1392-IMU-SBS-M-ETW

Material: **MTM45-1/IM7-145-32%RW** Normalizatio Cured Ply Thickness: 0.0055

Test Type: Short Beam Shear Condition: ETW #Plies: 16

Test Method: MP1116 (ASTMD2344) Span (4t): 0.35

ACG, Inc.
Material & Process
Laboratory Report

Specimen ID	Length, in.	Width, in.	Thickness, in.	Cured Ply Thickness:	Ultimate Load, lb.	Failure Mode	Ultimate Strength, ksi	
							Measured	Normalized
AITR1392-IMU-SBS-C-M1-ETW-1	0.541	0.2520	0.0863	0.0054	259.00	ILD	8.935	8.759
AITR1392-IMU-SBS-C-M1-ETW-2	0.541	0.2493	0.0872	0.0054	262.00	ILD	9.041	8.956
AITR1392-IMU-SBS-C-M1-ETW-3	0.541	0.2495	0.0877	0.0055	257.00	ILD/ILS	8.806	8.779
AITR1392-IMU-SBS-C-M1-ETW-4	0.531	0.2525	0.0870	0.0054	257.00	ILD	8.774	8.675
AITR1392-IMU-SBS-C-M2-ETW-1	0.542	0.2535	0.0859	0.0054	260.00	ILD	8.958	8.741
AITR1392-IMU-SBS-C-M2-ETW-2	0.535	0.2530	0.0866	0.0054	261.00	ILD	8.931	8.792
AITR1392-IMU-SBS-C-M2-ETW-3	0.540	0.2515	0.0843	0.0053	255.00	ILD	9.017	8.641
AITR1392-IMU-SBS-C-M2-ETW-4	0.541	0.2515	0.0840	0.0052	249.00	ILD	8.843	8.438
Minimum	0.5305	0.2493	0.0840	0.0052	249.00		8.774	8.438
Maximum	0.5430	0.2535	0.0877	0.0055	262.00		9.041	8.956
Average	0.5394	0.2515	0.0863	0.0054	257.50		8.913	8.723
Standard Deviation	0.0039	0.0015	0.0013	0.0001	4.14		0.097	0.148
Coefficient of Variation (%)	0.71	0.61	1.46	1.46	1.61		1.09	1.70
No. Specimens	10	10	10	10	8		8	8

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

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition				
	AITR	1392	IMU	OHT1	M	CTD				

Test Group: AITR1392-IMU-OHT1-M-CTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: NA Cured Ply Thickness: 0.0055

Test Type: Open-Hole Tension Layup 1 Condition: CTD #Plies: 24

Test Method: MP1117 (ASTMD5766)

ACG, Inc.
Material & Process Laboratory Report

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-IMU-OHT1-C-M1-CTD-1	12.0009	1.5067	0.1349	0.0056	0.2520	5.9788	1.8678	15168.30	74.62	XGM
AITR1392-IMU-OHT1-C-M1-CTD-2	12.0008	1.5057	0.1361	0.0057	0.2519	5.9772	1.8513	15111.49	73.76	XGM
AITR1392-IMU-OHT1-C-M1-CTD-3	12.0014	1.5057	0.1351	0.0056	0.2515	5.9867	1.8620	14576.66	71.68	XGM
AITR1392-IMU-OHT1-C-M1-CTD-4	12.0014	1.5051	0.1348	0.0056	0.2519	5.9750	1.8692	15459.61	76.22	XGM
AITR1392-IMU-OHT1-C-M1-CTD-5	12.0011	1.5050	0.1362	0.0057	0.2519	5.9747	1.8490	14666.82	71.53	XGM
Minimum	12.0008	1.5050	0.1348	0.0056	0.2515	5.9747	1.8490	14576.6620	71.5330	
Maximum	12.0014	1.5067	0.1362	0.0057	0.2520	5.9867	1.8692	15459.6140	76.2168	
Average	12.0011	1.5056	0.1354	0.0056	0.2518	5.9785	1.8599	14996.5758	73.5616	
Standard Deviation	0.0003	0.0007	0.0007	0.0000	0.0002	0.0049	0.0093	368.1577	1.9922	
Coefficient of Variation (%)	0.00	0.04	0.51	0.51	0.08	0.08	0.50	2.45	2.71	
No. Specimens	5	5	5	5	5	5	5	5	5	

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

FORM MP1117 (ASTMD5766)

Input:	Test Plan Prefix	Test Plan #	Material	Test	Cure Cycle	Condition				
	AITR	1392	IMU	OHT1	M	RTD				

Test Group: AITR1392-IMU-OHT1-M-RTD

Material: **MTM45-1/IM7-145-32%RW** Normalization: NA Cured Ply Thickness: 0.0055

Test Type: Open-Hole Tension Layup 1 Condition: RTD #Plies: 24

Test Method: MP1117 (ASTMD5766)

ACG, Inc.
Material & Process Laboratory Report

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-IMU-OHT1-C-M1-RTD-1	12.0011	1.5051	0.1355	0.0056	0.2524	5.9633	1.8625	14077.47	69.02	AGM
AITR1392-IMU-OHT1-C-M1-RTD-2	12.0010	1.5060	0.1353	0.0056	0.2528	5.9571	1.8689	13772.41	67.61	AGM
AITR1392-IMU-OHT1-C-M1-RTD-3	12.0014	1.5058	0.1358	0.0057	0.2520	5.9755	1.8561	14047.32	68.71	AGM
AITR1392-IMU-OHT1-C-M1-RTD-4	12.0014	1.5064	0.1355	0.0056	0.2517	5.9850	1.8580	14591.44	71.50	AGM
AITR1392-IMU-OHT1-C-M1-RTD-5	12.0013	1.5053	0.1358	0.0057	0.2506	6.0069	1.8451	13802.97	67.51	AGM
Minimum	12.0010	1.5051	0.1353	0.0056	0.2506	5.9571	1.8451	13772.4120	67.5129	
Maximum	12.0014	1.5064	0.1358	0.0057	0.2528	6.0069	1.8689	14591.4440	71.5016	
Average	12.0012	1.5057	0.1356	0.0056	0.2519	5.9776	1.8581	14058.3224	68.8702	
Standard Deviation	0.0002	0.0005	0.0002	0.0000	0.0008	0.0196	0.0088	328.5037	1.6128	
Coefficient of Variation (%)	0.00	0.03	0.17	0.17	0.33	0.33	0.47	2.34	2.34	
No. Specimens	5	5	5	5	5	5	5	5	5	

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

FORM MP1117 (ASTMD5766)