































































## Laminate Compression After Impact Properties (CAI) Summary

normalizing  $t_{ply}$   
[in]

0.0079

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]	# Plies in Laminate	Failure Mode
CKKBH11A	PWC1-CAI1-B-LH1-RTD-1	B	LH1	2	1	245.160	31.989	0.159	20	LDM
CKKBH12A	PWC1-CAI1-B-LH1-RTD-2	B	LH1	2	1	250.010	30.183	0.162	20	LDM
CKKBH13A	PWC1-CAI1-B-LH1-RTD-3	B	LH1	2	1	249.230	32.672	0.161	20	LDM
CKKBH14A	PWC1-CAI1-B-LH1-RTD-4	B	LH1	2	1	250.370	31.991	0.162	20	LDM

Avg. $t_{ply}$ [in]	Strength <sub>norm</sub> [ksi]
0.008	32.278
0.008	30.909
0.008	33.344
0.008	32.758

**Average**            **31.709**  
**Standard Dev.**    **1.067**  
**Coeff. of Var. [%]** **3.365**  
**Min.**                **30.183**  
**Max.**                **32.672**  
**Number of Spec.**    **4**

**Average<sub>norm</sub>**        **32.322**  
**Standard Dev.<sub>norm</sub>**    **1.038**  
**Coeff. of Var. [%]<sub>norm</sub>** **3.213**  
**Min.**                **30.909**  
**Max.**                **33.344**  
**Number of Spec.**        **4**

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]	# Plies in Laminate	Failure Mode
CKKBH11D	PWC1-CAI1-B-LH1-ETW2-1	B	LH1	2	1	248.190	24.651	0.162	20	LDM
CKKBH12D	PWC1-CAI1-B-LH1-ETW2-2	B	LH1	2	1	249.830	25.505	0.161	20	LDM
CKKBH13D	PWC1-CAI1-B-LH1-ETW2-3	B	LH1	2	1	249.680	24.889	0.161	20	LDM
CKKBH14D	PWC1-CAI1-B-LH1-ETW2-4	B	LH1	2	1	248.560	25.850	0.157	20	LDM

Avg. $t_{ply}$ [in]	Strength <sub>norm</sub> [ksi]
0.008	25.202
0.008	26.051
0.008	25.322
0.008	25.695

**Average**            **25.224**  
**Standard Dev.**    **0.551**  
**Coeff. of Var. [%]** **2.186**  
**Min.**                **24.651**  
**Max.**                **25.850**  
**Number of Spec.**    **4**

**Average<sub>norm</sub>**        **25.568**  
**Standard Dev.<sub>norm</sub>**    **0.385**  
**Coeff. of Var. [%]<sub>norm</sub>** **1.505**  
**Min.**                **25.202**  
**Max.**                **26.051**  
**Number of Spec.**        **4**