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VTC212

Epoxy Component Prepreg

Mechanical Properties

Material: **VTC212-C245T-HS-3K-42%RW-1250 (SHD1473-1250)**
Initial cure: 2 hrs @ 80°C then 2 hrs @ 120°C, all 2°C/min ramp rate (solid release, oven cured, vacuum only)
Testing: Performed at room temperature conditions (J60)

Test	Results			Standard
Fibre volume fraction (VF)	Measured	46.99	%	N/A
	Theoretical	48.70	%	
Cured Ply Thickness (CPT)	Measured	0.289	mm	N/A
	Theoretical	0.285	mm	
Compression 0°	Compressive strength	476	MPa	prEN 2850 Type B
Flexural 0°	Flexural strength	812	MPa	BS EN ISO 14125
	Flexural modulus	48.2	GPa	
Interlaminar Shear Strength 0°	Interlaminar shear strength	66.3	MPa	BS EN ISO 14130
DMA – Dry Tg	Tg Onset	122	°C	Modified ASTM D7028 (Single Cantilever)
	Peak Tan Delta	135	°C	
DMA – Wet tg 14 days in water at 70°C	Tg Onset	82	°C	
	Peak Tan Delta	94	°C	

All tests were completed at SHD Composites laboratories on specimens conditioned for a minimum of 16 hrs at room temperature (20°C). Complete test reports can be supplied independently upon request.