

Quantum Composites QCI-15CF

Thermoplastic Polyimide

Quantum Composites Inc.

Message:

QCI-15CF is a long carbon fiber reinforced sheet molding compound with a PMR-15 polyimide matrix. It is designed for compression molding of components requiring excellent retention of mechanical properties at temperatures of up to 300°C. The carbon fiber is 3K Tow, 30 million modulus, PAN based.

General Information			
Filler / Reinforcement	Long Carbon Fiber,55% Filler by Weight		
Appearance	Black		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	331	MPa	ASTM D638
Flexural Modulus	41400	MPa	ASTM D790
Flexural Strength	586	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	750	J/m	ASTM D256
Thermoset	Nominal Value	Unit	
Shelf Life (-18°C)	26	wk	

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