

Quantum Composites QC-8800 63% Glass Fiber Vinyl Ester SMC

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Vinyl Ester , Vinyl Ester Sheet Molding Compound

Material Notes:

QC-8800 is a vinyl ester-based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength. It exhibits unusual toughness, and is suggested for applications subject to impacts and rough handling. QC-8800 is also suggested for applications requiring excellent fatigue resistance. Form and Color = Rolled sheet, Black. Glass Fiber Length = 1 inch. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-QC-8800-63-Glass-Fiber-Vinyl-Ester-SMC.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	24 Hrs. ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	70	70	ASTM D2583
Tensile Strength, Ultimate	344 MPa	49900 psi	ASTM D638
Tensile Modulus	26.1 GPa	3790 ksi	ASTM D638
Flexural Yield Strength	585 MPa	84800 psi	ASTM D790
Flexural Modulus	20.6 GPa	2990 ksi	ASTM D790
Compressive Yield Strength	289 MPa	41900 psi	ASTM D695
Compressive Modulus	18.6 GPa	2700 ksi	ASTM D695
Izod Impact, Notched	19.2 J/cm	36.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	15.5 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	8.61 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	TMA
Maximum Service Temperature, Air	260 $^\circ\text{C}$	500 $^\circ\text{F}$	Deflection Temp; Load not reported; ASTM D648
Shrinkage	0.00 %	0.00 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+12$ ohm-cm	$\geq 1.00\text{e}+12$ ohm-cm	ASTM D257

Dielectric Strength Electrical Properties	12.0 kV/mm Metric	305 kV/in English	ASTM D149 Comments
Arc Resistance	129 sec	129 sec	ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	132 - 149 °C	270 - 300 °F	Mold temperature
Shelf Life	2.00 Month @Temperature 23.9 °C	2.00 Month @Temperature 75.0 °F	

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