

Quantum Composites QC-8700 63% Glass Fiber Reinforced Vinyl Ester SMC

Category : Polymer , Thermoset , Composite SMC , Vinyl Ester

Material Notes:

QC-8700 is a vinyl ester engineered structural composite molding compound 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-8700 is also suggested for applications requiring excellent fatigue resistance. It exhibits better temperature resistance than QC-8800. Form = Rolls, Festooned Sheet Color = Black, Natural Glass Fiber Content = 63% nominal Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-QC-8700-63-Glass-Fiber-Reinforced-Vinyl-Ester-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.87 g/cc	1.87 g/cc	ASTM D792
Water Absorption	0.080 %	0.080 %	ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	68	68	ASTM D2583
Tensile Strength	344 MPa	49900 psi	ASTM D638
Tensile Modulus	26.1 GPa	3790 ksi	ASTM D638
Flexural Strength	585 MPa	84800 psi	ASTM D790
Flexural Modulus	20.6 GPa	2990 ksi	ASTM D790
Poissons Ratio	0.38	0.38	ASTM D638
Izod Impact, Notched	17.6 J/cm	33.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	125 °C	257 °F	DMA

Processing Properties	Metric	English	Comments
Processing Temperature	132 - 149 °C @Thickness 12.7 mm	270 - 300 °F @Thickness 0.500 in	Compression Molding
Clamp Pressure	2.07 - 6.89 MPa	300 - 1000 psi	
Cure Time	3.00 - 5.00 min @Thickness 6.35 mm,	0.0500 - 0.0833 hour @Thickness 0.250 in,	

Processing Properties	Temperature 138 °C Metric	Temperature 280 °F English	Comments
Shelf Life	2.00 Month	2.00 Month	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Fiber Length (in)	1	Glass, nominal

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