

Quantum Composites QC-8560 60% Glass Fiber Vinyl Ester SMC

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

Material Notes:

QC-8560 is a vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength. It maintains excellent mechanical properties at temperatures above 125°C, and will withstand short term exposures at over 300°C.

Form and Color = Rolled Sheet, Green/Gray/Black. Glass Fiber Length (nominal) = 1/2 inch. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-QC-8560-60-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	0.050 %	0.050 %	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	261 MPa	37900 psi	ASTM D638
Tensile Modulus	26.8 GPa	3890 ksi	ASTM D638
Flexural Yield Strength	427 MPa	61900 psi	ASTM D790
	365 MPa @Temperature 115 °C	52900 psi @Temperature 239 °F	ASTM D790
Flexural Modulus	17.9 GPa	2600 ksi	ASTM D790
	16.2 GPa @Temperature 115 °C	2350 ksi @Temperature 239 °F	ASTM D790
Compressive Yield Strength	248 MPa	36000 psi	ASTM D695
Compressive Modulus	0.0172 GPa	2.49 ksi	ASTM D695
Izod Impact, Notched	12.8 J/cm	24.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	300 °C	572 °F	Short Term
Glass Transition Temp, Tg	160 °C	320 °F	DMA, ASTM D4065
Shrinkage	0.0010 %	0.0010 %	

Processing Properties	Metric	English	Comments
Processing Temperature			Mold temperature

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

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