

Quantum Composites QC-8100 60% Glass Fiber Vinyl Ester SMC (discontinued **)

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

Material Notes:

QC-8100 is a vinyl ester based sheet molding compound (SMC) designed for compression molding of components requiring high structural strength and corrosion resistance. Form and Colors = Rolled Sheet, Natural/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-8100-60-Glass-Fiber-Vinyl-Ester-SMC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc	0.0632 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	213 MPa	30900 psi	ASTM D638
Flexural Yield Strength	413 MPa	59900 psi	ASTM D790
Flexural Modulus	15.8 GPa	2290 ksi	ASTM D790
Compressive Yield Strength	246 MPa	35700 psi	ASTM D695
Izod Impact, Notched	16.0 J/cm	30.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	145 °C	293 °F	DMA, ASTM D4065
Shrinkage	<= 0.0010 %	<= 0.0010 %	ASTM D955

Processing Properties	Metric	English	Comments
Processing Temperature	127 - 160 °C	261 - 320 °F	Mold temperature

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