

Quantum Composites QC-2150LD NT 25% Fiberglass Reinforced Phenolic SMC

Category : Polymer , Thermoset , Composite SMC , Phenolic , Phenolic/Glass Fiber SMC

Material Notes:

QC-2150LD NT (126-40-50) is a fiberglass reinforced phenolic engineered structural composite molding compound. It exhibits outstanding low flammability characteristics. QC-2150LD NT (126-40-50) is recommended for applications such as aircraft interiors and public transportation components requiring composite materials having very low flammability, low smoke, and minimal generation of toxic gasses. Form = Roll Color = Natural Glass Fiber Content = 25% nominal Information provided by Quantum Composites.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-Composites-QC-2150LD-NT-25-Fiberglass-Reinforced-Phenolic-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	75.0 MPa	10900 psi	ASTM D638
Flexural Strength	158 MPa	22900 psi	ASTM D790
Flexural Modulus	9.60 GPa	1390 ksi	ASTM D790
Izod Impact, Notched	4.59 J/cm	8.60 ft-lb/in	ASTM D256

Processing Properties	Metric	English	Comments
Shelf Life	2.00 Month	2.00 Month	
	@Temperature 4.44 °C	@Temperature 40.0 °F	
	6.00 Month	6.00 Month	
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Descriptive Properties	Value	Comments
Fiber Length (in)	1	Glass, nominal
Flammability	0 seconds, 3.3 inches	FAA Vertical Burn (60 sec)
	38 (2 min), 63 (peak)	OSU Heat Release kW/m ² , 0.04"
Smoke Density Ds	8	BSS7238
Toxicity of Gasses	Pass	BSS7239

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