Lytex 9063NWC

Epoxy; Epoxide

Quantum Composites Inc.

Message:

Lytex 9063NWC is a high performance, glass fiber reinforced epoxy sheet molding compound designed for military and aerospace structural applications requiring excellent mechanical properties, retention of properties at elevated temperatures, good chemical resistance and excellent electrical properties. It contains shorter glass fibers than standard Lytex 9063 to allow easier flow in difficult geometries.

General Information			
Filler / Reinforcement	Glass Fiber,63% Filler by Weight		
Features	Good Chemical Resistance Good Electrical Properties		
Uses	Aerospace Applications Military Applications		
Appearance	Black Natural Color		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.82	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	193	MPa	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength	359	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	1300	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	302	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	3.0E+14	ohms·cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Thermoset	**Nominal Value**	**Unit**	
Shelf Life (-18°C)	26	wk	
Demold Time (135°C)	5.0 to 10	min	

Recommended distributors for this material

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