Lytex 9063

Epoxy; Epoxide

Quantum Composites Inc.

Message:

Lytex 9063 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 meets the requirements of MIL-M-46069 and MIL-M-46892.

General Information			
Filler / Reinforcement	Glass Fiber,63% Filler by Weight		
Features	Good Chemical Resistance Good Electrical Properties		
Uses	Aerospace Applications Military Applications		
Agency Ratings	MIL P-46069 MIL P-46892		
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
Bulk Factor	2.0		ASTM D1895
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	241	MPa	ASTM D638
Flexural Modulus	17900	MPa	ASTM D790
Flexural Strength	455	MPa	ASTM D790
Compressive Modulus	13100	MPa	ASTM D695
Compressive Strength	172	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	1900	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
Dielectric Constant (100 Hz)	4.30		ASTM D150
Dissipation Factor (100 Hz)	7.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Thermoset	Nominal Value	Unit	
Shelf Life (-18°C)	26	wk	
Demold Time (135°C)	5.0 to 10	min	
Injection	Nominal Value	Unit	
Mold Temperature	121 to 177	°C	

Recommended distributors for this material

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