

Lytex 4129

Epoxy; Epoxide

Quantum Composites Inc.

Message:

Lytex 4129 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 is the longer-shelf-life version of Lytex 9063. It can be stored for several weeks at room temperature, although long-term storage is still recommended at 0°F. Lytex 4129 has a softer sheet with longer flow. Overall handling and resultant physical properties are similar to those of Lytex 9063.

General Information			
Filler / Reinforcement	Glass Fiber,63% Filler by Weight		
Features	Good Chemical Resistance		
	Good Electrical Properties		
Uses	Aerospace Applications		
	Military Applications		
Appearance	Black		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.82	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	262	MPa	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength	441	MPa	ASTM D790
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	20	kV/mm	ASTM D149
Dielectric Constant (100 Hz)	4.30		ASTM D150
Dissipation Factor (100 Hz)	8.0E-3		ASTM D150
Thermoset	Nominal Value	Unit	
Shelf Life (-18°C)	26	wk	
Demold Time (138°C)	5.0 to 10	min	
Injection	Nominal Value	Unit	

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