

Lytex 4179

Epoxy; Epoxide
Quantum Composites Inc.

Message:

Lytex 4179 is a high-performance, 3K tow carbon fiber (PAN) 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 low density. It is a shorter fiber length version of Lytex 4149

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 55% filler by weight		
Features	Good chemical resistance		
Uses	Aerospace applications		
	Military application		
Appearance	Black		
Forms	SMC-Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	48300	MPa	ASTM D638
Tensile Strength	221	MPa	ASTM D638
Flexural Modulus	33100	MPa	ASTM D790
Flexural Strength	448	MPa	ASTM D790
Compressive Modulus	31700	MPa	ASTM D695
Compressive Strength	269	MPa	ASTM D695
Shear Modulus	13100	MPa	ASTM D732
Shear Strength	193	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	910	J/m	ASTM D256
Thermoset	Nominal Value	Unit	
Shelf Life (-12°C)	26	wk	
Demold Time (138°C)	5.0 - 10	min	
Additional Information			

The values reported as Shear Modulus, ASTM D732, and Shear Strength, ASTM D732, were tested in accordance with ASTM D5379 in the in-plane direction.

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

