Lytex 4175

Epoxy; Epoxide

Quantum Composites Inc.

Message:

Lytex 4175 is an epoxy matrix, continuous unidirectional carbon fiber reinforced, sheet molding compound (SMC). Lytex 4175 is suggested for applications where the fast process speed of compression molding is desired along with the mechanical properties of a continuous unidirectional carbon fiber. Lytex 4175 uses the same resin matrix as Lytex 9063 and can be molded using conventional equipment.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 57% filler by weight		
Features	Fast molding cycle		
Appearance	Black		
Forms	SMC-Sheet Molding Compound		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.49	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	110000	MPa	ASTM D638
Tensile Strength	1240	MPa	ASTM D638
Flexural Modulus	8200	MPa	ASTM D790
Flexural Strength	1170	MPa	ASTM D790
Compressive Modulus	103000	MPa	ASTM D695
Compressive Strength	655	MPa	ASTM D695
Shear Modulus	5520	MPa	ASTM D732
Shear Strength	89.6	MPa	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	1200	J/m	ASTM D256
Thermoset	**Nominal Value**	**Unit**	
Shelf Life (-18°C)	26	wk	
Demold Time (138°C)	6.0 - 8.0	min	
Additional Information			

The values reported as Shear Modulus, ASTM D732, and Shear Strength, ASTM D732, were tested in accordance with ASTM D5379.The values reported as Tensile Strength, ASTM D638, and Tensile Modulus, ASTM D638, were tested in accordance with ASTM D3039.

Recommended distributors for this material

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