

# Lytex 4182

Epoxy; Epoxide

Quantum Composites Inc.

## Message:

Lytex 4182 is a carbon fiber (PAN) reinforced epoxy sheet molding compound designed for structural applications requiring good mechanical properties, retention of properties at elevated temperatures, good chemical resistance, and low density. It utilizes a 12K Tow carbon fiber reinforcement.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 52% filler by weight		
Features	Good chemical resistance		
Uses	Components		
Appearance	Black		
Forms	SMC-Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	138	MPa	ASTM D638
Flexural Modulus	27600	MPa	ASTM D790
Flexural Strength	310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	302	°C	ASTM D648
Continuous Use Temperature	177	°C	ASTM D794
CLTE - Flow	5.4E-6	cm/cm/°C	ASTM D696
Thermal Conductivity	0.45	W/m/K	ASTM C177
Thermoset	Nominal Value	Unit	
Shelf Life (-12°C)	26	wk	
Demold Time (138°C)	5.0 - 10	min	

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## Recommended distributors for this material

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