

# Lytex 4181

Epoxy; Epoxide  
Quantum Composites Inc.

Message:

LYTEX 4181 is an ESC 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,55% Filler by Weight		
Features	Good Chemical Resistance		
	Good Thermal Stability		
	Low Density		
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	207	MPa	ASTM D638
Flexural Modulus	31000	MPa	ASTM D790
Flexural Strength	414	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)	260	°C	ASTM D648
Thermal Conductivity	0.45	W/m/K	ASTM C177
Thermoset	Nominal Value	Unit	
Shelf Life (-12°C)	26	wk	
Post Cure Time (138°C)	0.083 to 0.17	hr	
Injection	Nominal Value	Unit	
Mold Temperature	129 to 166	°C	

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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

