

AMC 2240

Phenolic
Quantum Composites Inc.

Message:

AMC 2240 is a carbon fiber reinforced sheet molding compound based on a phenolic resin matrix. This exhibits outstanding low flammability characteristics. AMC 2240 is designed for use in applications requiring short term exposure to high temperature and light weight.

General Information			
Filler / Reinforcement	Carbon Fiber,33% Filler by Weight		
Features	Flame Retardant		
Appearance	Black		
	Natural Color		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	165	MPa	ASTM D638
Flexural Modulus	15900	MPa	ASTM D790
Flexural Strength	241	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity	0.42	W/m/K	ASTM C177
Thermoset	Nominal Value	Unit	
Shelf Life (-18°C)	26	wk	
Post Cure Time (149°C)	0.050	hr	
Injection	Nominal Value	Unit	
Mold Temperature	132 to 160	°C	
Injection Pressure	3.45 to 13.8	MPa	

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