

Quantum Composites QC-2130

Phenolic

Quantum Composites Inc.

Message:

QC-2130 is a glass-reinforced sheet molding compound based on a phenolic resin matrix. It exhibits outstanding low flammability characteristics. QC-2130 is recommended for applications such as aircraft interiors and public transportation components requiring composite materials having very low flammability, low smoke, and minimal generation of toxic gases.

General Information			
Filler / Reinforcement	Glass Fiber,27% Filler by Weight		
Features	Flame Retardant		
	Low Smoke Emission		
	Low Toxicity		
Uses	Aircraft Interiors		
Appearance	Black		
	Natural Color		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13100	MPa	ASTM D638
Tensile Strength	75.8	MPa	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	270	J/m	ASTM D256
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.02 mm)	5V		UL 94
Oxygen Index	46	%	ASTM D2863
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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