

Sumitomo Phenolic CF 9040A

Phenolic

Sumitomo Bakelite North America

Message:

CF 9040A is a high strength carbon fiber phenolic molding compound

General Information	
Filler / Reinforcement	Carbon Fiber
Appearance	Black
Forms	Pellets
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Apparent Density	0.50	g/cm ³	ISO 60
Molding Shrinkage	0.10	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.090	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	120	MPa	ISO 527-2
Flexural Modulus	23000	MPa	ISO 178
Flexural Stress	245	MPa	ISO 178
Compressive Stress	320	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
CLTE			ASTM E831
Flow	1.0E-5	cm/cm/°C	
Transverse	2.0E-5	cm/cm/°C	

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