

VYNTEC CF8030

Phenolic

Vyncolit N.V.

Message:

Vyntec® CF8030 is a carbon fiber reinforced phenolic moldable composite with excellent tribological properties. It has high mechanical strength combined with low density.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	High Tensile Strength		
	Low Density		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Part Marking Code (ISO 11469)	>PF-CF30<		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Apparent Density	0.61	g/cm ³	ISO 60
Molding Shrinkage - Flow	0.090	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.080	%	ISO 62
Post Shrinkage	0.040	%	ISO 2577
Flexural Strain at Break	1.4	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	23000	MPa	ISO 527-2
Tensile Stress (Break, Injection Molded)	112	MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	0.52	%	ISO 527-2
Flexural Modulus (Injection Molded)	22000	MPa	ISO 178
Flexural Stress (Injection Molded)	295	MPa	ISO 178
Compressive Stress	318	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	2.6	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	16	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 250	°C	ISO 75-2/Af

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Recommended distributors for this material

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