

VYNTEC CF8131

Phenolic

Vyncolit N.V.

Message:

Vyntec® CF8131 is a carbon fiber reinforced phenolic moldable composite with superior tribological properties and excellent mechanical properties.

General Information			
Filler / Reinforcement	Carbon Fiber,50% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Part Marking Code (ISO 11469)	>PF-(CF+CD)50<		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm³	ISO 1183
Apparent Density	0.57	g/cm³	ISO 60
Molding Shrinkage	0.020	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Post Shrinkage	0.020	%	ISO 2577
Flexural Strain at Break	1.0	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	31000	MPa	ISO 527-2
Tensile Stress (Break, Injection Molded)	108	MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	0.40	%	ISO 527-2
Flexural Modulus (Injection Molded)	28000	MPa	ISO 178
Flexural Stress (Injection Molded)	239	MPa	ISO 178
Compressive Stress	200	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	2.8	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (Injection Molded)	11	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 250	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow	4.0E-6	cm/cm/°C	
Transverse	2.7E-5	cm/cm/°C	

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