

Vyncolit® W5020

Phenolic

Vyncolit N.V.

Message:

Vyncolit® W5020 is a glass bead and glass fiber reinforced phenolic molding compound with excellent mechanical and thermal properties, higher isotropic properties and good dimensional stability.

General Information			
Filler / Reinforcement	Glass Bead\Glass Fiber,55% Filler by Weight		
Features	Good Dimensional Stability		
Agency Ratings	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Green		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Part Marking Code (ISO 11469)	>PF-(GB+GF)55<		
Physical	Nominal Value	Unit	Test Method
Density	1.68	g/cm ³	ISO 1183
Apparent Density	0.67	g/cm ³	ISO 60
Molding Shrinkage	0.36	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Post Shrinkage	0.050	%	ISO 2577
Flexural Strain at Break	1.5	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2
Tensile Stress (Break)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	0.85	%	ISO 527-2
Flexural Modulus	13000	MPa	ISO 178
Flexural Stress	185	MPa	ISO 178
Compressive Stress	270	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	11	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	188	°C	ISO 75-2/Af
CLTE			TMA
Flow	2.2E-5	cm/cm/°C	
Transverse	4.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.4E+13	ohms	IEC 60093
Volume Resistivity	3.2E+13	ohms·cm	IEC 60093
Electric Strength	36	kV/mm	IEC 60243-1
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-1		
3.00 mm	V-0		

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