

Vyncolit® W5000

Phenolic

Vyncolit N.V.

Message:

Vyncolit® W5000 is a glass fiber and mineral filled phenolic molding compound with excellent dimensional stability and a very low coefficient of linear expansion.

General Information			
Filler / Reinforcement	Glass\Mineral,80% Filler by Weight		
Features	Good Dimensional Stability		
Agency Ratings	EU 2002/96/EC (WEEE) 2		
	EU 2006/122/EC		
Appearance	Dark Green		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Part Marking Code (ISO 11469)	>PF-(MD+GF)80<		
Physical	Nominal Value	Unit	Test Method
Density	2.08	g/cm ³	ISO 1183
Apparent Density	1.03	g/cm ³	ISO 60
Molding Shrinkage	0.15	%	ISO 2577
Water Absorption (Saturation, 23°C)	0.060	%	ISO 62
Post Shrinkage	0.020	%	ISO 2577
Flexural Strain at Break	0.70	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	29000	MPa	ISO 527-2
Tensile Stress (Break)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	0.40	%	ISO 527-2
Flexural Modulus	24000	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Compressive Stress	360	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.8	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	8.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	211	°C	ISO 75-2/Af
CLTE			TMA
Flow	1.4E-5	cm/cm/°C	

Transverse	2.5E-5	cm/cm/°C
Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.50 mm	V-0	
3.00 mm	V-0	

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