

Vyncolit® X7320

Phenolic

SBHPP

Message:

Vyncolit® X7320 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	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS compliance		
Appearance	Dark Green		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection 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 (Equilibrium, 23°C, 50% RH)	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	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
Linear thermal expansion coefficient			TMA
Flow	1.4E-5	cm/cm/°C	TMA
Lateral	2.5E-5	cm/cm/°C	TMA
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.5 mm, Tested by SBHPP	V-0		UL 94
3.0 mm, Tested by SBHPP	V-0		UL 94

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