

Vyncolit® X6320

Phenolic

SBHPP

Message:

Vyncolit® X6320 is a glass fiber and mineral filled phenolic molding compound with excellent dimensional stability, especially in media which contain water.

General Information			
Filler / Reinforcement	Glass \mineral, 70% 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	Black		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		
Part Marking Code (ISO 11469)	>PF-(MD+GF)70		
Physical	Nominal Value	Unit	Test Method
Density	1.85	g/cm³	ISO 1183
Apparent Density	0.88	g/cm³	ISO 60
Molding Shrinkage	0.18	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.040	%	ISO 62
Post Shrinkage	4.0E-3	%	ISO 2577
Flexural Strain at Break	0.92	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21000	MPa	ISO 527-2
Tensile Stress	88.0	MPa	ISO 527-2
Tensile Strain (Break)	0.47	%	ISO 527-2
Flexural Modulus	19000	MPa	ISO 178
Flexural Stress	168	MPa	ISO 178
Compressive Stress	311	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.7	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	7.7	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

1.8 MPa, not annealed	195	°C	ISO 75-2/Af
8.0 MPa, not annealed	145	°C	ISO 75-2/Cf
Linear thermal expansion coefficient			TMA
Flow	1.3E-5	cm/cm/°C	TMA
Lateral	3.5E-5	cm/cm/°C	TMA
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20	kV/mm	IEC 60243-1
Comparative Tracking Index	200	V	IEC 60112

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