

Vyncolit® X7012

Phenolic

Vyncolit N.V.

Message:

Vyncolit® X7012 is a glass fiber and glass beads reinforced molding compound with high mechanical strength, even at high temperatures in Long Life Coolants.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	High Strength		
Agency Ratings	EU 2002/96/EC (WEEE) 2		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Appearance	Green		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Part Marking Code (ISO 11469)	>PF-(GF+GB)45<		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Apparent Density	0.64	g/cm ³	ISO 60
Molding Shrinkage	0.35	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.080	%	ISO 62
Post Shrinkage	0.090	%	ISO 2577
Flexural Strain at Break	1.6	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	13000	MPa	ISO 527-2
Tensile Stress (Break, Injection Molded)	100	MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	0.80	%	ISO 527-2
Flexural Modulus (Injection Molded)	12000	MPa	ISO 178
Flexural Stress (Injection Molded)	190	MPa	ISO 178
Compressive Stress	260	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	3.8	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (Injection Molded)	13	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	213	°C	ISO 75-2/Af
CLTE			TMA
Flow	1.9E-5	cm/cm/°C	
Transverse	5.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.9E+13	ohms	IEC 60093
Volume Resistivity	7.0E+14	ohms·cm	IEC 60093
Electric Strength	17	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-0		
3.00 mm	V-0		

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