

Vyncolit® X7530

Phenolic
SBHPP

Message:

Vyncolit® X7530 is a glass fiber reinforced phenolic molding compound with superior mechanical properties : highest impact and excellent retention of mechanical properties at elevated temperatures.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 55% filler by weight		
Features	Impact resistance, high		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS compliance		
Appearance	Green		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		
Part Marking Code (ISO 11469)	>PF-GF55		
Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm³	ISO 1183
Apparent Density	0.58	g/cm³	ISO 60
Molding Shrinkage	0.14	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.060	%	ISO 62
Post Shrinkage	0.010	%	ISO 2577
Flexural Strain at Break	1.5	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17000	MPa	ISO 527-2
Tensile Stress	123	MPa	ISO 527-2
Tensile Strain (Break)	0.95	%	ISO 527-2
Flexural Modulus	16000	MPa	ISO 178
Flexural Stress	245	MPa	ISO 178
Compressive Stress	270	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.6	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	19	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	224	°C	ISO 75-2/Af
Linear thermal expansion coefficient			TMA
Flow	1.0E-5	cm/cm/°C	TMA
Lateral	4.1E-5	cm/cm/°C	TMA
Thermal Conductivity	0.37	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.9E+13	ohms	IEC 60093
Volume Resistivity	7.0E+14	ohms·cm	IEC 60093
Dielectric Strength	32	kV/mm	IEC 60243-1
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.0 mm, Tested by SBHPP)	V-1		UL 94

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