

Vyncolit® X7801

Phenolic

SBHPP

Message:

Vyncolit® X7801 is a glass fiber reinforced phenolic molding compound with good thermal, electrical and mechanical properties.

General Information			
Filler / Reinforcement	Micro glass bead \glass fiber, 55% filler by weight		
Features	Good electrical performance		
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-(GF+GB)55		
Physical	Nominal Value	Unit	Test Method
Density	1.71	g/cm³	ISO 1183
Apparent Density	0.65	g/cm³	ISO 60
Molding Shrinkage	0.24	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.060	%	ISO 62
Post Shrinkage	0.030	%	ISO 2577
Flexural Strain at Break	1.5	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15000	MPa	ISO 527-2
Tensile Stress	95.0	MPa	ISO 527-2
Tensile Strain (Break)	0.78	%	ISO 527-2
Flexural Modulus	14000	MPa	ISO 178
Flexural Stress	201	MPa	ISO 178
Compressive Stress	272	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	13	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	219	°C	ISO 75-2/Af

Linear thermal expansion coefficient			TMA
Flow	1.5E-5	cm/cm/°C	TMA
Lateral	4.2E-5	cm/cm/°C	TMA
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	40	kV/mm	IEC 60243-1

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