

Vyncolit® A2710

Phenolic

SBHPP

Message:

Vyncolit® A2710 is a glass fiber reinforced phenolic molding compound with excellent mechanical and thermal properties.

General Information			
Filler / Reinforcement	Glass Beads \Glass Fiber, 40% Filler by Weight		
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)40		
Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm ³	ISO 1183
Apparent Density	0.66	g/cm ³	ISO 60
Molding Shrinkage	0.41	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	%	ISO 62
Post Shrinkage	0.11	%	ISO 2577
Flexural Strain at Break	1.6	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress	57.0	MPa	ISO 527-2
Tensile Strain (Break)	0.57	%	ISO 527-2
Flexural Modulus	11000	MPa	ISO 178
Flexural Stress	168	MPa	ISO 178
Compressive Stress	242	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.9	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	213	°C	ISO 75-2/Af
Linear thermal expansion coefficient	TMA		

Flow	2.0E-5	cm/cm/°C	TMA
Lateral	5.2E-5	cm/cm/°C	TMA

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