

Vyncolit® BXE7660

Phenolic

SBHPP

Message:

Vyncolit® BXE7660 is a glass fiber reinforced phenolic molding compound with excellent mechanical properties and high temperature resistance.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
	Glass beads		
	Mineral filler		
Features	Heat resistance, high		
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+MD)65		
Physical	Nominal Value	Unit	Test Method
Density	1.84	g/cm ³	ISO 1183
Apparent Density	0.59	g/cm ³	ISO 60
Molding Shrinkage	0.14	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.060	%	ISO 62
Post Shrinkage	0.040	%	ISO 2577
Flexural Strain at Break	1.2	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19000	MPa	ISO 527-2
Tensile Stress	101	MPa	ISO 527-2
Tensile Strain (Break)	0.68	%	ISO 527-2
Flexural Modulus	18000	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Compressive Stress	293	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.3	kJ/m ²	ISO 179

Charpy Unnotched Impact Strength	14	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, not annealed	223	°C	ISO 75-2/Af
8.0 MPa, not annealed	171	°C	ISO 75-2/Cf
Linear thermal expansion coefficient			TMA
Flow	1.4E-5	cm/cm/°C	TMA
Lateral	5.0E-5	cm/cm/°C	TMA
Thermal Conductivity	0.45	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.7E+13	ohms	IEC 60093
Volume Resistivity	4.2E+13	ohms·cm	IEC 60093
Dielectric Strength	18	kV/mm	IEC 60243-1
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.0 mm)	V-0		UL 94

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