

Vyncolit® BXE7670

Phenolic

Vyncolit N.V.

Message:

Vyncolit® BXE7670 is a glass fiber reinforced phenolic molding compound with excellent mechanical properties and high temperature resistance.

General Information			
Filler / Reinforcement	Glass Bead\Glass Fiber,65% Filler by Weight		
Features	High Heat Resistance		
Agency Ratings	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

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 (23°C, 24 hr)	0.060	%	ISO 62
Post Shrinkage	0.040	%	ISO 2577
Flexural Strain at Break	1.2	%	ISO 178
ISO Type	>PF-(GF+GB+MD)65<		ISO 11469

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	19000	MPa	ISO 527-2
Tensile Stress (Break, Injection Molded)	101	MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	0.68	%	ISO 527-2
Flexural Modulus (Injection Molded)	18000	MPa	ISO 178
Flexural Stress (Injection Molded)	210	MPa	ISO 178
Compressive Stress	293	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	3.3	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (Injection Molded)	14	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed ¹	> 250	°C	ISO 75-2/Af

1.8 MPa, Unannealed	223	°C	ISO 75-2/Af
8.0 MPa, Unannealed ²	> 250	°C	ISO 75-2/Cf
8.0 MPa, Unannealed	171	°C	ISO 75-2/Cf
CLTE			ASTM E831
Flow	1.4E-5	cm/cm/°C	
Transverse	5.0E-5	cm/cm/°C	
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
Electric Strength	18	kV/mm	IEC 60243-1
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
NOTE			
1.	postcured up to 210°C		
2.	postcured up to 210°C		

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