Vyncolit® BXE7665

Phenolic

Vyncolit N.V.

Message:

Vyncolit® BXE7665 is a glass fiber filled phenolic molding compound with high mechanical and good thermal properties.

General Information	
Filler / Reinforcement	Glass Fiber,65% Filler by Weight
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	1.90	g/cm³	ISO 1183
Apparent Density	0.63	g/cm³	ISO 60
Molding Shrinkage	0.15	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.040	%	ISO 62
Post Shrinkage	0.040	%	ISO 2577
Flexural Strain at Break	1.0	%	ISO 178
ISO Type	>PF-(GF+MD)65<		ISO 11469
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	22000	MPa	ISO 527-2
Tensile Stress (Break, Injection Molded)	101	MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	0.56	%	ISO 527-2
Flexural Modulus (Injection Molded)	21000	MPa	ISO 178
Flexural Stress (Injection Molded)	205	MPa	ISO 178
Compressive Stress	293	MPa	ISO 604
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Injection Molded)	3.5	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (Injection Molded)	12	kJ/m²	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	195	°C	ISO 75-2/Af

8.0 MPa, Unannealed [2]	> 250	°C	ISO 75-2/Cf
8.0 MPa, Unannealed	168	°C	ISO 75-2/Cf
CLTE			ASTM E831
Flow	1.4E-5	cm/cm/°C	
Transverse	3.1E-5	cm/cm/°C	
Thermal Conductivity	0.48	W/m/K	ASTM E1461
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	4.3E+13	ohms	IEC 60093
Volume Resistivity	8.1E+14	ohms·cm	IEC 60093
Electric Strength	19	kV/mm	IEC 60243-1
Comparative Tracking Index	200	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
NOTE			
1.	postcured up to 210°C		
2.	postcured up to 210°C		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China