

Vyncolit® BXE650/1

Phenolic

SBHPP

Message:

Vyncolit® BXE650/1 is an inorganic filled phenolic molding compound with excellent isotropic properties, superior dimensional stability and very high mechanical properties, even at elevated temperatures.

General Information			
Filler / Reinforcement	Micro glass bead \glass fiber, 75% filler by weight		
Features	Good Isotropy		
	Good dimensional stability		
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-(GB+GF)75		
Physical	Nominal Value	Unit	Test Method
Density	1.98	g/cm ³	ISO 1183
Apparent Density	0.77	g/cm ³	ISO 60
Molding Shrinkage	0.19	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.050	%	ISO 62
Post Shrinkage	0.040	%	ISO 2577
Flexural Strain at Break	1.2	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	22000	MPa	ISO 527-2
Tensile Stress	108	MPa	ISO 527-2
Tensile Strain (Break)	0.54	%	ISO 527-2
Flexural Modulus	20000	MPa	ISO 178
Flexural Stress	235	MPa	ISO 178
Compressive Stress	413	MPa	ISO 604
Coefficient of Friction			
Dynamic	0.54		
Static	0.56		

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.9	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	> 250	°C	ISO 75-2/Af
8.0 MPa, not annealed	178	°C	ISO 75-2/Cf
Linear thermal expansion coefficient			TMA
Flow	1.6E-5	cm/cm/°C	TMA
Lateral	2.4E-5	cm/cm/°C	TMA
Thermal Conductivity	0.51	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.5E+12	ohms	IEC 60093
Volume Resistivity	2.1E+14	ohms·cm	IEC 60093
Dielectric Strength	28	kV/mm	IEC 60243-1
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm, Tested by SBHPP	V-0		UL 94
3.0 mm, Tested by SBHPP	V-0		UL 94

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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



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