

Vyncolit® BXE650

Phenolic

Vyncolit N.V.

Message:

Vyncolit® BXE650 is an inorganic filled phenolic molding compound with excellent isotropic properties, superior dimensional stability . It is specially used for potable water applications.

General Information			
Filler / Reinforcement	Glass Bead\Glass Fiber,75% Filler by Weight		
Features	Good Dimensional Stability		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Part Marking Code (ISO 11469)	>PF-(GB+GF)75<		
Physical	Nominal Value	Unit	Test Method
Density	1.99	g/cm³	ISO 1183
Apparent Density	0.73	g/cm³	ISO 60
Molding Shrinkage	0.20	%	ISO 2577
Water Absorption (Saturation, 23°C)	0.040	%	ISO 62
Post Shrinkage	0.040	%	ISO 2577
Flexural Strain at Break	1.2	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	23000	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Break)	0.67	%	ISO 527-2
Flexural Modulus	21000	MPa	ISO 178
Flexural Stress	247	MPa	ISO 178
Compressive Stress	431	MPa	ISO 604
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.54		
vs. Itself - Static	0.56		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.8	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	15	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	> 250	°C	ISO 75-2/Af

8.0 MPa, Unannealed	178	°C	ISO 75-2/Cf
CLTE			TMA
Flow	1.6E-5	cm/cm/°C	
Transverse	2.4E-5	cm/cm/°C	
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
Electric Strength	17	kV/mm	IEC 60243-1
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		

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