

Vyncolit® X651

Phenolic

SBHPP

Message:

Vyncolit® X651 is a glass fiber and mineral filled phenolic molding compound with excellent dimensional stability and a very low coefficient of thermal expansion.

General Information			
Filler / Reinforcement	Glass \mineral, 80% filler by weight		
Features	Good dimensional stability		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS compliance		
Appearance	Dark Green		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		
Part Marking Code (ISO 11469)	>PF-(MD+GF)80		
Physical	Nominal Value	Unit	Test Method
Density	2.08	g/cm ³	ISO 1183
Apparent Density	1.05	g/cm ³	ISO 60
Molding Shrinkage	0.15	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.15	%	ISO 62
Post Shrinkage	0.020	%	ISO 2577
Flexural Strain at Break	0.70	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	25000	MPa	ISO 527-2
Tensile Stress	80.0	MPa	ISO 527-2
Tensile Strain (Break)	0.40	%	ISO 527-2
Flexural Modulus	25000	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Compressive Stress	300	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.3	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	7.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/Af
Linear thermal expansion coefficient			TMA
Flow	1.4E-5	cm/cm/°C	TMA
Lateral	2.5E-5	cm/cm/°C	TMA
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20	kV/mm	IEC 60243-1
Comparative Tracking Index	200	V	IEC 60112

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