

Vyncolit® X655RB

Phenolic

Vyncolit N.V.

Message:

Vyncolit® X655RB is a glass fiber and mineral filled phenolic molding compound with superior stiffness, high dimensional stability and high wear resistance.

General Information			
Filler / Reinforcement	Glass\Mineral		
Features	Good Dimensional Stability		
Agency Ratings	EU 2002/96/EC (WEEE) 2		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Appearance	Dark Green		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer 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	1.04	g/cm ³	ISO 60
Molding Shrinkage	0.15	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Post Shrinkage	0.020		ISO 2577
Flexural Strain at Break	0.75	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	30000	MPa	ISO 527-2
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Break)	0.45	%	ISO 527-2
Flexural Modulus	25000	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Compressive Stress	360	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.7	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	8.7	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	223	°C	ISO 75-2/Af
CLTE			TMA

Flow	1.2E-5	cm/cm/°C	
Transverse	2.2E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+13	ohms	IEC 60093
Volume Resistivity	1.7E+15	ohms·cm	IEC 60093
Electric Strength	25	kV/mm	IEC 60243-1
Comparative Tracking Index	325	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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