

Vyncolit® X620

Phenolic

Vyncolit N.V.

Message:

Vyncolit X620 is a glass fibre and graphite filled phenolic moulding compound with low friction resistance.

General Information			
Filler / Reinforcement	Glass\Graphite		
Features	Low Friction		
Appearance	Black		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm³	ISO 1183
Apparent Density	0.75	g/cm³	ISO 60
Molding Shrinkage	0.22	%	ISO 2577
Water Absorption (Saturation, 23°C)	0.10	%	ISO 62
Post Shrinkage	0.010	%	ISO 2577
Flexural Strain at Break	1.0	%	ISO 178
ISO Type	PF 2 C1		
Pourability	Good		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17000	MPa	ISO 527-2
Tensile Stress (Break)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	0.70	%	ISO 527-2
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Compressive Stress	170	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	7.0	kJ/m²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/Af
CLTE			TMA
Flow	2.0E-5	cm/cm/°C	
Transverse	3.5E-5	cm/cm/°C	

Flammability	Nominal Value	Test Method
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Flame Rating		UL 94
1.60 mm	V-0	
4.00 mm	V-0	

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