

Vyncolit® G920

Phenolic

Vyncolit N.V.

Message:

Vyncolit G920 is a glass fibre filled phenolic moulding compound with high mechanical and good thermal properties.

General Information			
Filler / Reinforcement	Glass Fiber		
Appearance	Black		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.72	g/cm ³	ISO 1183
Apparent Density	0.65	g/cm ³	ISO 60
Molding Shrinkage	0.35	%	ISO 2577
Water Absorption (Saturation, 23°C)	0.20	%	ISO 62
Post Shrinkage	0.15		ISO 2577
Flexural Strain at Break	1.4	%	ISO 178
ISO Type	PF 2 C3		
Pourability	Good		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15000	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	0.60	%	ISO 527-2
Flexural Modulus	14000	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Compressive Stress	260	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/Af
CLTE			TMA
Flow	2.5E-5	cm/cm/°C	
Transverse	3.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Electric Strength	25	kV/mm	IEC 60243-1

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