

Vyncolit® GS84.9

Phenolic

Vyncolit N.V.

Message:

Vyncolit GS84.9 is a textile fibre filled phenolic material with high mechanical properties.

General Information			
Filler / Reinforcement	Cotton filler		
Features	Impact resistance, high		
Appearance	Black		
Forms	Particle		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183
Apparent Density	0.45	g/cm³	ISO 60
Water Absorption (Equilibrium, 23°C, 50% RH)	1.3	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	35.0	MPa	ISO 527-2
Flexural Modulus	6750	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Compressive Stress	150	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	6.0	kJ/m²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	150	°C	ISO 75-2/A

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	125	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating (4.00 mm)	V-1		UL 94

Additional Information			
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Apparent Density, ISO 60: 0.40 to 0.50 g/cm³Pourability: excellentMold Shrinkage, ISO 2577: 0.4 to 0.60 %Post Shrinkage, ISO 2577: 0.4 to 0.60 %Flexural Modulus, ISO 178: 6 to 7.5 GPaInsulation resistance dry, IEC 167: 0.5 G OhmInsulation resistance wet after 24 hours in water, IEC 167: 0.1 G Ohm

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