

Vyncolit® GS431

Phenolic

Vyncolit N.V.

Message:

Vyncolit GS431 is a cotton filled phenolic moulding compound with a high impact resistance.

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

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Apparent Density	0.45	g/cm ³	ISO 60
Water Absorption (Equilibrium, 23°C, 50% RH)	1.3	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	25.0	MPa	ISO 527-2
Flexural Modulus	7750	MPa	ISO 178
Flexural Stress	60.0	MPa	ISO 178
Compressive Stress	160	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	6.0	kJ/m ²	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
Dielectric Strength	15	kV/mm	IEC 60243-1
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: 0.35 to 0.55 g/cm³Pourability: excellentMold Shrinkage, ISO 2577: 0.6 to 0.8 %Post Shrinkage, ISO 2577: 0.6 to 0.8 %Flexural Modulus, ISO 178: 7.0 to 8.5 GPaInsulation resistance dry, IEC 167: 0.8 G OhmInsulation resistance wet after 24 hours in water, IEC 167: 0.3 G Ohm

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