

Vyncolit® G425P

Phenolic

Vyncolit N.V.

Message:

Vyncolit G425P is a medium impact resistant phenolic moulding compound.

General Information	
Filler / Reinforcement	Fiber filler
Features	Medium impact resistance
Uses	Electrical housing
Appearance	Black
Forms	Particle
Processing Method	Compression molding Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Apparent Density	0.53	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)	35.0	MPa	ISO 527-2
Flexural Modulus	8250	MPa	ISO 178
Flexural Stress	60.0	MPa	ISO 178
Compressive Stress	150	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	5.0	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			

Apparent Density, ISO 60: 0.45 to 0.60 g/cm³Pourability: excellentMold Shrinkage, ISO 2577: 0.60 to 0.80 %Post Shrinkage, ISO 2577: 0.40 to 0.60 %Flexural Modulus, ISO 178: 7.5 to 9 GPaInsulation resistance dry, IEC 167: 0.4 G OhmInsulation resistance wet after 24 hours in water, IEC 167: 0.2 G OhmIncandescence resistance, ISO 181: 0

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