

Vyncolit® G83

Phenolic

Vyncolit N.V.

Message:

Vyncolit G83 is a phenolic (Phenolic) material, and its filler is fiber filler. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

The main features of Vyncolit G83 are:

- flame retardant/rated flame
- Impact resistance

the typical application field of Vyncolit G83 is: housing

General Information			
Filler / Reinforcement	Fiber filler		
Features	Medium impact resistance		
Uses	Electrical housing		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Apparent Density	0.50	g/cm ³	ISO 60
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	30.0	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	3.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	5.5	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 0.55 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 9.0 GPaInsulation resistance dry, IEC 167: 1 G OhmInsulation resistance wet after 24 hours in water, IEC 167: 0.5 G Ohm

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

