

Vyncolit® G900

Phenolic

SBHPP

Message:

Vyncolit® G900 is a glass fiber reinforced resol resin based molding material. It has good mechanical properties, combined with superior electrical insulation properties.

General Information			
Filler / Reinforcement	Glass \mineral, 65% filler by weight		
Features	Insulation		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
	EU 2006/122/EC		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		
Part Marking Code (ISO 11469)	>PF-(GF+MD)65		
Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm ³	ISO 1183
Apparent Density	0.79	g/cm ³	ISO 60
Molding Shrinkage	0.23	%	ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.11	%	ISO 62
Post Shrinkage	0.070	%	ISO 2577
Flexural Strain at Break	1.3	%	ISO 178
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18000	MPa	ISO 527-2
Tensile Stress	114	MPa	ISO 527-2
Tensile Strain (Break)	0.88	%	ISO 527-2
Flexural Modulus	16000	MPa	ISO 178
Flexural Stress	185	MPa	ISO 178
Compressive Stress	257	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.4	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	13	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

1.8 MPa, not annealed	151	°C	ISO 75-2/Af
8.0 MPa, not annealed	136	°C	ISO 75-2/Cf
Linear thermal expansion coefficient			TMA
Flow	5.0E-6	cm/cm/°C	TMA
Lateral	4.0E-5	cm/cm/°C	TMA
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	7.4E+13	ohms	IEC 60093
Volume Resistivity	3.8E+15	ohms·cm	IEC 60093
Dielectric Strength	32	kV/mm	IEC 60243-1
Comparative Tracking Index	200	V	IEC 60112

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Recommended distributors for this material

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