

Vyncolit® A2990

Phenolic

Vyncolit N.V.

Message:

Vyncolit® A2990 is a glass fiber reinforced resol resin based on molding material. It has good mechanical properties, combined with superior electrical insulation properties.

General Information			
Filler / Reinforcement	Glass Fiber,65% Filler by Weight		
Features	Electrically Insulating		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Part Marking Code (ISO 11469)	>PF-(GF+MD)65<		
Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm³	ISO 1183
Apparent Density	0.79	g/cm³	ISO 60
Molding Shrinkage	0.23	%	ISO 2577
Water Absorption (Saturation, 23°C)	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 (Injection Molded)	18000	MPa	ISO 527-2
Tensile Stress (Break, Injection Molded)	114	MPa	ISO 527-2
Tensile Strain (Break)	0.88	%	ISO 527-2
Flexural Modulus (Injection Molded)	16000	MPa	ISO 178
Flexural Stress (Injection Molded)	185	MPa	ISO 178
Compressive Stress	257	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Injection Molded)	3.4	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (Injection Molded)	13	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	151	°C	ISO 75-2/Af
8.0 MPa, Unannealed	136	°C	ISO 75-2/Cf
CLTE			TMA

Flow	5.0E-6	cm/cm/°C	
Transverse	4.0E-5	cm/cm/°C	
Thermal Conductivity	0.41	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	7.4E+13	ohms	IEC 60093
Volume Resistivity	3.8E+15	ohms·cm	DIN 53482
Electric Strength	32	kV/mm	IEC 60243-1
Comparative Tracking Index	200	V	IEC 60112

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