

Vyncolit® W5016

Phenolic

Vyncolit N.V.

Message:

Vyncolit W5016 is a glass fibre and mineral filled phenolic moulding compound with excellent dimensional stability and a very low coefficient of thermal expansion.

General Information			
Filler / Reinforcement	Glass\Mineral		
Appearance	Dark Green		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Density	2.08	g/cm ³	ISO 1183
Apparent Density	0.95 to 1.10	g/cm ³	ISO 60
Molding Shrinkage	0.10 to 0.25	%	ISO 2577
Water Absorption (Saturation, 23°C)	0.10	%	ISO 62
Post Shrinkage	0.020 to 0.10	%	ISO 2577
Flexural Strain at Break	0.75 to 0.85	%	ISO 178
ISO Type	PF 2 C3		
Pourability	Excellent		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	28000 to 30000	MPa	ISO 527-2
Tensile Stress (Break)	70.0 to 90.0	MPa	ISO 527-2
Tensile Strain (Break)	0.20 to 0.40	%	ISO 527-2
Flexural Modulus	23000 to 25000	MPa	ISO 178
Flexural Stress	170 to 190	MPa	ISO 178
Compressive Stress	340 to 380	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.3 to 3.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	6.0 to 8.0	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	190 to 210	°C	ISO 75-2/Af
8.0 MPa, Unannealed	160 to 180	°C	ISO 75-2/C
CLTE			TMA
Flow	1.2E-5 to 1.6E-5	cm/cm/°C	
Transverse	1.7E-5 to 2.3E-5	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Electric Strength	30	kV/mm	IEC 60243-1
Comparative Tracking Index	200	V	IEC 60112
Insulation Resistance ¹	1.0E+12 to 1.0E+13	ohms	IEC 60167
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
4.00 mm	V-0		
NOTE			
1.	Dry		

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