

Vyncolit® X7500

Phenolic

Vyncolit N.V.

Message:

Vyncolit X7500 is a glass fibre reinforced phenolic moulding compound with superior mechanical properties: very high tensile and flexural strength combined with high elongation at break.

General Information	
UL YellowCard	E167521-254324
Filler / Reinforcement	Glass Fiber
Features	High Elongation
	High Tensile Strength
Appearance	Green
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm³	ISO 1183
Apparent Density	0.65	g/cm³	ISO 60
Molding Shrinkage	0.17	%	ISO 2577
Water Absorption (Saturation, 23°C)	0.20	%	ISO 62
Post Shrinkage	0.020	%	ISO 2577
Flexural Strain at Break	1.6	%	ISO 178
ISO Type	PF 2 C3		
Pourability	Good		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	20000	MPa	ISO 527-2
Tensile Stress (Break)	130	MPa	ISO 527-2
Tensile Strain (Break)	1.0	%	ISO 527-2
Flexural Modulus	17500	MPa	ISO 178
Flexural Stress	250	MPa	ISO 178
Compressive Stress	280	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	21	kJ/m²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	220	°C	ISO 75-2/Af
CLTE			TMA

Flow	2.0E-5	cm/cm/°C	
Transverse	3.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	7.0E+11	ohms	IEC 60093
Volume Resistivity	4.0E+11	ohms·cm	DIN 53482
Electric Strength	30	kV/mm	IEC 60243-1
Comparative Tracking Index	175	V	IEC 60112
Insulation Resistance			IEC 60167
-- 1	1.0E+11	ohms	
-- 2	1.0E+12	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-1		UL 94
NOTE			
1.	Wet after 24 hr in water		
2.	Dry		

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