

MALAT 38GFRH200 - 1298

Polybutylene Terephthalate

AD majoris

Message:

MALAT 38GFRH200 - 1298 is a Polybutylene Terephthalate (PBT) product filled with glass fiber. It can be processed by injection molding and is available in Europe.
Characteristics include:
Flame Rated
Eco-Friendly/Green

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Recyclable Material		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	NF T 51-063
Molding Shrinkage ¹			
Across Flow : 3.00 mm	0.80	%	
Flow : 3.00 mm	0.60	%	
Water Absorption			
23°C, 24 hr	0.030	%	NF T 51-166
Equilibrium, 23°C, 50% RH	0.14	%	NF T 51-290
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8200	MPa	NF T 51-034
Tensile Stress (Break)	115	MPa	NF T 51-034
Tensile Strain (Break)	2.5	%	NF T 51-034
Flexural Modulus	7600	MPa	NF T 51-001
Flexural Stress ²	180	MPa	NF T 51-001
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.5	kJ/m ²	NF T 51-035
Charpy Unnotched Impact Strength	30	kJ/m ²	NF T 51-035
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			NF T 51-005
0.45 MPa, Unannealed	215	°C	
1.8 MPa, Unannealed	205	°C	
Ball Pressure Test (215°C)	Pass		NF C 62-411
Melting Temperature (DSC)	225	°C	NF T 51-049
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	NF C 26-215
Volume Resistivity	1.0E+15	ohms · cm	NF C 26-215

Electric Strength (2.00 mm)	21	kV/mm	NF C 26-225
Comparative Tracking Index			NF C 26-220
Solution A	250	V	
Solution B	125	V	
Insulation Resistance	1.0E+14	ohms	NF C 26-210
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		NF T 51-072
Glow Wire Flammability Index (1.60 mm)	960	°C	DIN 57471
Oxygen Index	31	%	NF T 51-071
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	230 to 240	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	250 to 260	°C	
Mold Temperature	60.0 to 80.0	°C	
NOTE			
1.	Plate 100x100x3 mm		
2.	at Break		

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