

MALAT 38NFRH000 - 8531

Polybutylene Terephthalate

AD majoris

Message:

MALAT 38NFRH000 - 8531 is a Polybutylene Terephthalate (PBT) product. It can be processed by injection molding and is available in Europe.

Characteristics include:

- Flame Rated
- Eco-Friendly/Green
- Good Dimensional Stability

General Information			
Features	Good Dimensional Stability		
	Recyclable Material		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	NF T 51-063
Molding Shrinkage ¹			
Across Flow : 3.00 mm	2.0	%	
Flow : 3.00 mm	1.9	%	
Water Absorption			
23°C, 24 hr	0.040	%	NF T 51-166
Equilibrium, 23°C, 50% RH	0.17	%	NF T 51-290
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	NF T 51-034
Tensile Stress (Break)	70.0	MPa	NF T 51-034
Tensile Strain (Break)	5.0	%	NF T 51-034
Flexural Modulus	5000	MPa	NF T 51-001
Flexural Stress ²	104	MPa	NF T 51-001
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	NF T 51-035
Charpy Unnotched Impact Strength	25	kJ/m ²	NF T 51-035
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			NF T 51-005
0.45 MPa, Unannealed	170	°C	
1.8 MPa, Unannealed	70.0	°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)	22	kV/mm	NF C 26-225
Comparative Tracking Index			NF C 26-220
Solution A	250	V	
Solution B	75.0	V	
Insulation Resistance	1.0E+14	ohms	NF C 26-210
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.00 mm)	V-0		NF T 51-072
Glow Wire Flammability Index (1.60 mm)	850	°C	DIN 57471
Oxygen Index	30	%	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	235 to 250	°C	
Front Temperature	245 to 260	°C	
Mold Temperature	60.0 to 80.0	°C	
NOTE			
1.	Plate 100x100x3 mm		
2.	at Break		

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