

MALAT 38GFRH300

Polybutylene Terephthalate

AD majoris

Message:

MALAT 38GFRH300 is a glass fibre reinforced polybutylene terephthalat, intended for injection moulding. Classified V0 to UL94 norm. High oxygen index, excellent dimensional stability in humid environment, allowing use of a temperature peak of 200 ° C. MALAT 38GFRH300 is available in natural but other colours can be provided on request. MALAT 38GFRH300 combines high mechanical, thermal and electrical properties with excellent chemical resistance and dimensional stability.

APPLICATIONS

MALAT 38GFRH300 is intended for the injection moulding of electrical components (switches and connector housings) and automotive application (door handles and pillar trim).

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Recyclable Material		
Uses	Automotive Applications		
	Electrical Housing		
	Electrical Parts		
	Handles		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.66	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.70	%	
Flow : 2.00 mm	0.50	%	
Water Absorption			ISO 62
23°C, 24 hr	0.020	%	
Equilibrium, 23°C, 50% RH	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11300	MPa	ISO 527-2
Tensile Stress (Break)	70.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	9600	MPa	ISO 178

Flexural Stress ²	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Ball Pressure Test (215°C)	Pass		IEC 60695-10-2
Melting Temperature (DSC)	225	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	23	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12
Oxygen Index	32	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	60.0 to 80.0	°C	
NOTE			
1.	Plate 100x100x2 mm		
2.	at Break		

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