

MALAT 9383GFR300

Polybutylene Terephthalate

AD majoris

Message:

MALAT 9383GFR300 is a 30 % glass fibre reinforced polybutylene terephthalat, halogen free, intended for injection moulding. Classified V0 according to UL94 norm, MALAT 9383GFR300 is available in natural but other colours can be provided on request. This technical datasheet is valid for all our compounds MALAT 9383GFR300: natural or other colours. MALAT 9383GFR300 combines high mechanical, thermal and electrical properties with excellent chemical resistance and dimensional stability.

APPLICATIONS

MALAT 9383GFR300 is intended for the injection moulding of electrical components and automotive applications including interior, exterior and electrical and mechanical systems, such as:

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability		
	Recyclable materials		
	Good electrical performance		
	Good chemical resistance		
	Halogen-free		
Uses	Electrical components		
	Automotive Electronics		
	Car interior parts		
	Automotive exterior parts		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Molding Shrinkage ¹ (2.00 mm)	0.90	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8200	MPa	ISO 527-2
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Flexural Stress ²	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	210	°C	ISO 75-2/B
1.8 MPa, not annealed	180	°C	ISO 75-2/A
Melting Temperature (DSC)	225	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	23	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-2		UL 94
1.60 mm	V-0		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	IEC 60695-2-12
2.00 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	775	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	230 - 250	°C	
Mold Temperature	60.0 - 80.0	°C	
Injection Rate	Fast		
Injection instructions			
Back pressure: Moderate			
NOTE			
1.	Plate 100x100x2 mm		
2.	at Break		

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