

MALAT 9383GFR200 - 8229

Polybutylene Terephthalate

AD majoris

Message:

MALAT 9383GFR200 - 8229 is a 20 % glass fibre reinforced polybutylene terephthalat, halogen free, intended for injection moulding. Classified V0 according to UL94 norm, MALAT 9383GFR200 - 8229 is available in black but other colours can be provided on request. This technical datasheet is valid for all our compounds MALAT 9383GFR200 - 8229: black or other colours. MALAT 9383GFR200 - 8229 combines high mechanical, thermal and electrical properties with excellent chemical resistance and dimensional stability.

APPLICATIONS

MALAT 9383GFR200 - 8229 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, 20% 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	Black		
	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage ¹ (2.00 mm)	1.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6500	MPa	ISO 527-2
Tensile Stress (Break)	70.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	4900	MPa	ISO 178
Flexural Stress ²	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	27	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	215	°C	ISO 75-2/B
1.8 MPa, not annealed	179	°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
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
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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