MALAT 37G100 - 4205

Polybutylene Terephthalate

AD majoris

Message:

MALAT 37G100 - 4205 is a 10 % glass fibre reinforced polybutylene terephthalat, intended for injection moulding. The product is available in black and natural (MALAT 37G100) but other colours can be provided on request
They combine high mechanical, thermal and electrical properties with excellent chemical resistance and dimensional stability
APPLICATIONS
MALAT 37G100 - 4205 is intended for the injection moulding of electrical components and automotive applications including interior, exterior and electrical and mechanical systems, such as:
Electrical appliance components
Switches and connector housings
Dashboard components
Door handles and pillar trim

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight
Features	Good dimensional stability Recyclable materials Good electrical performance Good chemical resistance
Uses	Handle Electrical components Electrical housing Home appliance components Automotive Electronics Car interior parts Automotive exterior parts
Appearance	Black Available colors Natural color
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm³	ISO 1183
Molding Shrinkage [1]			
Vertical flow direction: 3.00mm	1.2	%	
Flow direction: 3.00mm	0.80	%	
Water Absorption			ISO 62
23°C, 24 hr	0.050	%	ISO 62

Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4800	MPa	ISO 527-2
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	4600	MPa	ISO 178
Flexural Stress [2]	195	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.0	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength (23°C)	36	kJ/m^2	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	212	°C	ISO 75-2/B
1.8 MPa, not annealed	202	°C	ISO 75-2/A
Ball Pressure Test (215°C)	Pass		NF C 62-411
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)	39	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
50 Hz	3.20		ASTM D150
1 kHz	3.20		ASTM D150
1 MHz	3.10		ASTM D150
Dissipation Factor			ASTM D150
50 Hz	1.0E-3		ASTM D150
1 kHz	1.0E-3		ASTM D150
1 MHz	0.014		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm, 30 sec)	650	°C	IEC 60695-2-13
Oxygen Index	20	%	ISO 4589-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	255 - 270	°C	
Mold Temperature	80.0 - 120	°C	
Injection Rate	Fast		
Injection instructions			
Back pressure: Moderate			
NOTE			

1.	Plate 100x100x3 mm
2.	at Break

Recommended distributors for this material

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