

MAJORIS BG305

Polypropylene

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Message:

BG305 is a 30% chemically coupled glass fibre reinforced polypropylene compound with a low coefficient of friction and an excellent combination of thermal and mechanical properties intended for injection moulding.

The product is available in natural, but other colours can be provided on request.

BG305 has been developed especially for demanding applications in various engineering sectors.

APPLICATIONS

BG305 is used for various applications by injection with improved properties sliding and / or abrasion resistance.

Product requiring high overall mechanical performance such as:

Electrical tool and small appliance components

Miscellaneous automotive technical items

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Low friction coefficient		
	Chemical coupling		
	Recyclable materials		
Uses	Electrical/Electronic Applications		
	Power/other tools		
	Home appliance components		
	Application in Automobile Field		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.4	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	82.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	2.8	%	ISO 527-2/5
Flexural Modulus ¹	5700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	159	°C	ISO 75-2/B
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 - 270	°C	
Mold Temperature	30.0 - 70.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressure			
NOTE			
1.	2.0 mm/min		

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