MAJORIS BG300

Polypropylene

AD majoris

Message:

BG300 is a 30% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding.
The product is available in natural, but other colours can be provided on request.
BG300 has been developed especially for demanding applications in various engineering sectors.
BG300 has high rigidity and impact strength, good dimensional stability and good creep resistancy also at high temperatures.
APPLICATIONS
Product requiring very high overall mechanical performance such as:
Sockets and junction boxes for electrical industry
Electrical tool and appliance components
Lamp housing
Miscellaneous technical items
Can suitably be made from BG300.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability Rigidity, high Chemical coupling Impact resistance, high Recyclable materials Good creep resistance		
Uses	Electrical/Electronic Applications Power/other tools Home appliance components Shell		
Appearance	Available colors Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.12	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage	0.60 - 0.80	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	75		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6700	MPa	ISO 527-2/1

Tensile Stress (Yield)	85.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Flexural Modulus [1]	5550	MPa	ISO 178
Flexural Stress	132	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	12	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	159	°C	ISO 75-2/B
1.8 MPa, not annealed	145	°C	ISO 75-2/A
Vicat Softening Temperature			
--	164	°C	ISO 306/A
--	135	°C	ISO 306/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		

Recommended distributors for this material

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