MAJORIS BGR313

Polypropylene

AD majoris

Message:

BGR313 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.
BGR313 has been developed especially for demanding applications in various engineering sectors.
BGR313 has very high rigidity and impact strength, good detergent resistance, antistatic, good dimensional stability and good creep resistance also at high temperatures.
APPLICATIONS
Product requiring very high overall mechanical performance such as:
Domestic appliance components like washing machine tubs.
Electrical tool and appliance components
Miscellaneous automotive technical items

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Antistatic property		
Features	Good dimensional stability Rigidity, high Chemical coupling Antistatic property Impact resistance, high Recyclable materials Good creep resistance Detergent resistance		
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	1.13	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage [1]			
Vertical flow direction	1.1	%	

Flow direction	0.16	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7400	MPa	ISO 527-2/1
Tensile Stress (Yield)	100	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Flexural Modulus [2]	5900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	41	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	143	°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	210 - 260	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressure			
NOTE			
1.	150x80x2 mm		
2.	2.0 mm/min		

Recommended distributors for this material

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WECHAT