MAJORIS BGR314

Polypropylene

AD majoris

Message:

BGR314 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.
BGR314 has been developed especially for demanding applications in various engineering sectors.
BGR314 has very high rigidity and impact strength, good dimensional stability and good creep resistance also at high temperatures.
APPLICATIONS
Product requiring very high overall mechanical performance such as:
Electrical tool and appliance components
Miscellaneous automotive technical items

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 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/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	41	kJ/m²	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