

Fibremod™ GB215HP-9502

Polypropylene

Borealis AG

Message:

Fibremod GB215HP-9502 is a 20 % long glass fibre reinforced polypropylene grade intended for injection moulding and extrusion. The long glass fibres, chemically coupled to the polypropylene matrix, are providing outstanding mechanical properties such as high strength, high stiffness and excellent impact behaviour.

Due to its excellent combination of properties this material can substitute in many applications other engineering plastics or metal alloys. A significant value of this material is the fact that it does not change its mechanical properties at humid conditions or water contact.

The product is available in standard black 9502.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight
Additive	heat stabilizer
Features	Rigidity, high
	High strength
	Impact resistance, high
	Recyclable materials
	Thermal Stability
Uses	Engineering application
	Application in Automobile Field
	Car interior parts
Appearance	Black
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage ¹			Internal method
Vertical flow direction: 2.00mm	0.55	%	Internal method
Flow direction: 2.00mm	0.10	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	5300	MPa	ISO 527-2
Tensile Stress	105	MPa	ISO 527-2
Tensile Strain (Break)	2.7	%	ISO 527-2/50
Flexural Modulus ²	4550	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	22	kJ/m ²	ISO 179/1eA
23°C	19	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	32	kJ/m ²	ISO 179/1eU
23°C	57	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	21	kJ/m ²	ISO 180/1A
23°C	21	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	158	°C	ISO 75-2/A
Vicat Softening Temperature	125	°C	ISO 306/B
Melt Energy	72.5	kJ/kg	ISO 11357
Fogging ³ (100°C)	1.2	mg	DIN 75201
Emission	50.0	µgC/g	VDA 277
Injection	Nominal Value	Unit	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Feeding Temperature: 40 - 80 °C Mass Temperature: 220 - 260 °C Back Pressure: Low to Medium Screw Speed: Low to Medium Flow Front Speed: 100 - 200 mm/s			
NOTE			
1.	150x80x2		
2.	2.0 mm/min		
3.	16 h		

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