

# Fibremod™ GB303HP

Polypropylene

Borealis AG

## Message:

Fibremod™ GB303HP is a 30 % 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 black.

General Information	
Filler / Reinforcement	Long glass fiber, 30% filler by weight
Features	Rigidity, high
	High strength
	Chemical coupling
	Impact resistance, good
	Recyclable materials
Uses	Metal substitution
	Application in Automobile Field
	Car interior parts
	Automotive exterior parts
	Car dashboard
Appearance	Black
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction: 2.00mm	0.70	%	Internal method
Flow direction: 2.00mm	0.20	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	127	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	7400	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	125	MPa	ISO 527-2

Tensile Strain (Break, Injection Molded)	2.4	%	ISO 527-2/50
Flexural Modulus <sup>1</sup> (Injection Molded)	6500	MPa	ISO 178
Flexural Stress (Injection Molded)	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, injection molding	36	kJ/m <sup>2</sup>	ISO 179/1eA
-20°C, injection molding	26	kJ/m <sup>2</sup>	ISO 179/1eA
23°C, injection molding	23	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C, injection molding	42	kJ/m <sup>2</sup>	ISO 179/1eU
23°C, injection molding	50	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C, injection molding	36	kJ/m <sup>2</sup>	ISO 180/1A
23°C, injection molding	30	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	165	°C	ISO 75-2/B
1.8 MPa, not annealed	160	°C	ISO 75-2/A
Vicat Softening Temperature			
--	165	°C	ISO 306/A50
--	145	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	230 - 280	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Feeding Temperature: 40 to 80°CBack Pressure: as low as possibleScrew speed: Low to mediumFlow front speed: 100 - 200 mm/s			
NOTE			
1.	2.0 mm/min		

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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