

Fibremod™ GB601HP

Polypropylene

Borealis AG

Message:

Fibremod GB601HP is a special long glass fibre reinforced polypropylene concentrate grade intended for injection moulding and extrusion. This material is designed for the dilution process in combination with special developed dilution polypropylene grades, for example homopolymer HK060AE or copolymer BJ356MO. This combination of concentrate - dilution polypropylene should then be adjusted for a glass fibre content range of 20 - 40 % in the end product. The product is available in standard black 9502. This grade is additionally available in an emission optimized version with the same technical properties.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability		
	Moisture resistance		
	Rigidity, high		
	High strength		
	Impact resistance, high		
	Recyclable materials		
	Good creep resistance		
Heat resistance, high			
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
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 (1.00 mm)	15000	MPa	ISO 527-2
Tensile Stress	135	MPa	ISO 527-2
Tensile Strain (Break)	1.1	%	ISO 527-2/50
Flexural Modulus ¹	14100	MPa	ISO 178
Flexural Stress	195	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	24	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	167	°C	ISO 75-2/B
1.8 MPa, not annealed	164	°C	ISO 75-2/A
Injection	Nominal Value	Unit	

Mold Temperature	40.0 - 80.0	°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.	2.0 mm/min	

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Recommended distributors for this material

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