

Fibremod™ GB306SAF-9502

Polypropylene

Borealis AG

Message:

Fibremod GB306SAF-9502 is a 35 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding. The product is available in standard black 9502.

This material shows excellent mechanical properties also at elevated temperatures.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	Copper Stabilizer heat stabilizer		
Features	Recyclable materials Thermal Stability		
Uses	Parts under the hood of a car Application in Automobile Field		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	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	0.80 - 1.2	%	Internal method
Flow direction: 2.00mm	0.10 - 0.20	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	9000	MPa	ISO 527-2
Tensile Stress	118	MPa	ISO 527-2
Tensile Strain (Break)	2.8	%	ISO 527-2/50
Flexural Modulus ²	8000	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	10	kJ/m ²	ISO 179/1eA
23°C	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	54	kJ/m ²	ISO 179/1eU
23°C	58	kJ/m ²	ISO 179/1eU

Notched Izod Impact			ISO 180/1A
-20°C	10	kJ/m ²	ISO 180/1A
23°C	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	154	°C	ISO 75-2/A
Vicat Softening Temperature	142	°C	ISO 306/B
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: 230 - 280 °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		

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