

Fibremod™ GD301FE

Polypropylene

Borealis AG

Message:

Fibremod GD301FE is a 30 % chemically coupled high Performance glass fibre reinforced polypropylene compound intended for injection moulding.

This material shows excellent mechanical properties also at elevated temperatures.

The product is available in standard black 9502.

Applications :

Fibremod GD301FE has been developed especially for applications like:

Front end carriers

Door module carriers

Fans and shrouds

Pump housings

Pedal carriers

Air bag housings

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Chemical coupling		
Uses	Pump parts		
	Application in Automobile Field		
	Shell		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage ¹			Internal method
Vertical flow direction: 2.00mm	0.90	%	Internal method
Flow direction: 2.00mm	0.15	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ISO 527-2/1
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus ²	6500	MPa	ISO 178
Flexural Stress	145	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	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	54	kJ/m ²	ISO 179/1eU

23°C	59	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	9.5	kJ/m ²	ISO 180/1A
23°C	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	158	°C	ISO 75-2/B
1.8 MPa, not annealed	148	°C	ISO 75-2/A
Vicat Softening Temperature	139	°C	ASTM D1525 ³
Melt Energy	67.2	kJ/kg	ISO 11357
Atomization-16 hr (100°C)	1.0	mg	DIN 75201
Emission	40.0	µgC/g	VDA 277
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	3.00 - 6.00	MPa	
Injection instructions			
Feeding Temperature: 40 to 80°C Back Pressure: As low as possible Screw Speed: Low to Medium Flow Front Speed: 100 to 200 m/min			
NOTE			
1.	150x80x2 mm		
2.	2.0 mm/min		
3.	载荷2 (50N)		

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