Fibremod™ GB477HP

Compounded Polypropylene

Borealis AG

Message:

Fibremod GB477HP is a 40 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding. The product is available in standard black 9502.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Low volatilization Rigidity, high Recyclable materials Workability, good		
Uses	Parts under the hood of a car Application in Automobile Field Automotive exterior parts		
Appearance	Black		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.23	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.7	g/10 min	ISO 1133
Molding Shrinkage [1]			Internal method
Vertical flow direction: 2.00mm	0.70 - 1.1	%	Internal method
Flow direction: 2.00mm	0.10 - 0.30	%	Internal method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (1.00 mm)	10000	MPa	ISO 527-2
Tensile Stress	130	MPa	ISO 527-2
Tensile Strain (Break)	2.8	%	ISO 527-2/50
Flexural Modulus [2]	9000	MPa	ISO 178
Flexural Stress	175	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	11	kJ/m²	ISO 179/1eA
23°C	12	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	59	kJ/m²	ISO 179/1eU
23°C	62	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature (1.8 MPa, Unannealed)	153	°C	ISO 75-2/A
CLTE - Flow	2.0E-5	cm/cm/°C	Internal method
Additional Information	Nominal Value	Unit	Test Method
Emission		µgC/g	VDA 277
Injection	Nominal Value	Unit	
Mold Temperature	30.0 - 70.0	°C	
Holding Pressure	30.0 - 70.0	MPa	
Injection instructions			
Feeding Temperatrue: 40 - 80 °CMass Temperature: 220 - 260 °CBack Pressure: Low to MediumScrew Speed: Low to MediumFlow Front Speed: 100 - 200 mm/s			
NOTE			
1.	150x80x2		
2.	2.0 mm/min		

Recommended distributors for this material

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