Fibremod™ GB306SAF

Polypropylene

Borealis AG

Message:

Fibremod GB306SAF 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.
Applications:
Fibremod GB306SAF has been developed especially for demanding applications in under the bonnet applications.
Air intake manifolds
Parts for cooling systems
Fans and shrouds
Technical components exposed to high heat and laods
Features:
Long term high heat stabilized
Copper (CU) stabilized

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	heat stabilizer		
Features	Chemical coupling Thermal Stability Thermal stability, good Copper contact stability		
Uses	Electric Motor Housings Electrical/Electronic Applications Parts under the hood of a car Application in Automobile Field Shell		
Appearance	Black		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.18	g/cm³	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 (Injection Molded)	9000	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	118	MPa	ISO 527-2/50
Tensile Strain (Break, Injection Molded)	2.8	%	ISO 527-2/50

Flexural Modulus [2] (Injection Molded)	8000	MPa	ISO 178
Flexural Stress (Injection Molded)	170	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C, injection molding	10	kJ/m²	ISO 179/1eA
23°C, injection molding	11	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C, injection molding	54	kJ/m²	ISO 179/1eU
23°C, injection molding	58	kJ/m²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C, injection molding	10	kJ/m²	ISO 180/1A
23°C, injection molding	11	kJ/m²	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/B50
Injection	**Nominal Value**	**Unit**	
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 to 200 mm/s			
NOTE			
1.	150x80x2 mm		
2.	2.0 mm/min		

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