Fibremod™ GB364WG

Polypropylene

Borealis AG

Message:

Fibremod GB364WG is a 30% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding. The product is available in natural but other colours can be provided on request.
This material shows excellent mechanical properties also at elevated temperatures.
Applications:
Fibremod GB364WG has been developed especially for applications like:
Pump Housings
Tubs for washing machines
Miscellaneous technical components for the white good industry.
Features:
Long term heat stabilzed
Detergent resistant
UL registered under file E108112

General Information			
UL YellowCard	E108112-218638		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Features	Chemical coupling Detergent resistance Thermal Stability		
Uses	Electric Motor Housings Pump parts Large household appliances and small household appliances Electrical components Home appliance components		
UL File Number	E108112		
Appearance	Available colors Natural color		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.12	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	1.1	%	Internal method
Flow direction: 2.00mm	0.20	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**

Ball Indentation Hardness (H 358/30)	112	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	6900	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	100	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	3.3	%	ISO 527-2/50
Flexural Modulus [2] (Injection Molded)	6000	MPa	ISO 178
Flexural Stress (Injection Molded)	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C, injection molding	9.0	kJ/m²	ISO 179/1eA
23°C, injection molding	12	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C, injection molding	49	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	8.5	kJ/m²	ISO 180/1A
23°C, injection molding	11	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	159	°C	ISO 75-2/B
1.8 MPa, not annealed	143	°C	ISO 75-2/A
Vicat Softening Temperature			
--	164	°C	ISO 306/A50
--	135	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
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

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