Fibremod™ GD310U

Polypropylene

Borealis AG

Message:

Fibremod GD310U is a 30% chemically coupled 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 8229.
Applications:
Fibremod GD310U has been developed especially for demanding applications in under the bonnet applications.
Air Ducts
Fans and shrouds
Lamp housings
Features:
Very High Flowability

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Chemical coupling High liquidity		
Uses	Electrical housing Shell		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.13	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage [1]			Internal method
Vertical flow direction: 2.00mm	0.90	%	Internal method
Flow direction: 2.00mm	0.20	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 132/10)	121	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	7200	MPa	ISO 527-2/1
Tensile Stress (Break, Injection Molded)	105	MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	2.9	%	ISO 527-2/50
Flexural Modulus [2] (Injection Molded)	6200	MPa	ISO 178
Flexural Stress (Injection Molded)	140	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	10	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C, injection molding	45	kJ/m²	ISO 179/1eU
23°C, injection molding	54	kJ/m²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C, injection molding	9.0	kJ/m²	ISO 180/1A
23°C, injection molding	10	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	145	°C	ISO 75-2/A
Vicat Softening Temperature	133	°C	ISO 306/B
Melt Energy	72.8	kJ/kg	ISO 11357
Atomization-16 hr (100°C)		mg	DIN 75201
Emission	20.0	µgC/g	VDA 277
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: Low to mediumScrew 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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