Fibremod[™] GD302HP

Polypropylene

Borealis AG

Message:

Fibremod GD302HP is a 30 % chemically coupled high performance glass fibre reinforced polypropylene compound intended for injection moulding. This material has an excellent balance between impact strength and stiffness and is easy to process. Applications: Fibremod GD302HP has been developed especially for the automotive industry. Dashboard carriers Door module carriers Structural seat parts Features: High impact strength

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Features	Rigid, good			
	Chemical coupling			
	Impact resistance, high			
	Recyclable materials			
	Workability, good			
Uses	Application in Automobile Field			
	Car interior parts			
	Car interior equipment			
	Car dashboard			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Density	1.16	g/cm³	ISO 1183	
Melt Mass-Flow Rate (MFR) (230°C/2.16				
kg)	3.3	g/10 min	ISO 1133	
Molding Shrinkage ¹			Internal method	
Vertical flow direction: 2.00mm	0.80	%	Internal method	
Flow direction: 2.00mm	0.060	%	Internal method	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus (Injection Molded)	5600	МРа	ISO 527-2/1	
Tensile Stress (Yield, Injection Molded)	65.0	МРа	ISO 527-2	
Tensile Strain (Yield, Injection Molded)	4.0	%	ISO 527-2	
Flexural Modulus ² (Injection Molded)	5100	МРа	ISO 178	
Flexural Stress (Injection Molded)	86.0	МРа	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	

-20°C, injection molding	13	kJ/m²	ISO 179/1eA	
23°C, injection molding	24	kJ/m²	ISO 179/1eA	
Charpy Unnotched Impact Strength			ISO 179/1eU	
-20°C, injection molding	60	kJ/m²	ISO 179/1eU	
23°C, injection molding	65	kJ/m²	ISO 179/1eU	
Notched Izod Impact			ISO 180/1A	
-20°C, injection molding	16	kJ/m²	ISO 180/1A	
23°C, injection molding	28	kJ/m²	ISO 180/1A	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (1.8 MPa,				
Unannealed)	132	°C	ISO 75-2/A	
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			

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