

Fibremod™ GE225U

Compounded Polypropylene

Borealis AG

Message:

Fibremod GE225U is a 20% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding. This material shows excellent mechanical properties also at elevated temperatures.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Chemical coupling		
	Recyclable materials		
	High liquidity		
	Thermal Stability		
Uses	Parts under the hood of a car		
	Application in Automobile Field		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ISO 1133
Molding Shrinkage ¹			
Vertical flow direction: 2.00mm	1.0	%	ISO 294-4
Flow direction: 2.00mm	0.20	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	5000	MPa	ISO 527-2
Tensile Stress	70.0	MPa	ISO 527-2
Tensile Strain (Break)	2.9	%	ISO 527-2/50
Flexural Modulus ²	4200	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.0	kJ/m ²	ISO 179/1eA
23°C	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	22	kJ/m ²	ISO 179/1eU
23°C	32	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	145	°C	ISO 75-2/B
1.8 MPa, not annealed	135	°C	ISO 75-2/A
Vicat Softening Temperature			
--	160	°C	ISO 306/A
--	126	°C	ISO 306/B
Additional Information	Nominal Value	Unit	Test Method
Emission	35.0	µgC/g	VDA 277
Injection	Nominal Value	Unit	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Feeding Temperature: 40 - 80°C Mass Temperature: 220 - 260°C Back Pressure: As low as possible Screw Speed: Low to Medium Flow Front Speed: 100 - 200 mm/s			
NOTE			
1.	150x80x2		
2.	2.0 mm/min		

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