

Fibremod™ K65G2

Compounded Polypropylene

Borealis AG

Message:

Fibremod K65G2 is a 20 % chemically coupled high performance 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	Recyclable materials		
	Thermal Stability		
Uses	Parts under the hood of a car		
	Application in Automobile Field		
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)	6.0	g/10 min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Vertical flow direction: 2.00mm	1.0	%	ISO 294-4
Flow direction: 2.00mm	0.20	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	5500	MPa	ISO 527-2
Tensile Stress	85.0	MPa	ISO 527-2/50
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus ²	4600	MPa	ISO 178
Flexural Stress	125	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	7.0	kJ/m ²	ISO 179/1eA
23°C	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	25	kJ/m ²	ISO 179/1eU
23°C	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	9.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B

1.8 MPa, not annealed	145	°C	ISO 75-2/A
Vicat Softening Temperature			
--	165	°C	ISO 306/A
--	132	°C	ISO 306/B
Flammability	Nominal Value	Unit	Test Method
Fogging ³ (100°C)	2.3	mg	DIN 75201
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: 230 - 280 °C Back Pressure: Low to Medium Screw Speed: Low to Medium Flow Front Speed: 100 - 200 mm/s			
NOTE			
1.	150x80x2		
2.	2.0 mm/min		
3.	16 h		

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