

Borealis PP VG602

Compounded Polypropylene

Borealis AG

Message:

VG602 is a 20% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	Recyclable materials		
Uses	Parts under the hood of a car		
	Car interior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	75.0	MPa	ISO 527-2/50
Flexural Modulus ¹	4250	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
-30°C	5.0	kJ/m ²	ISO 180/1A
23°C	9.8	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	140	°C	ISO 75-2/Ae
Flammability	Nominal Value	Unit	Test Method
Flammability (1.00 mm)	100	mm/min	ISO 3795
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. 2.0 mm/min

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Recommended distributors for this material

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