

Borealis PP VG621

Compounded Polypropylene

Borealis AG

Message:

VG621 is a 30% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% 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)	1.13	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 Modulus (23°C)	7000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	86.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2/50
Flexural Modulus ¹	6200	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	157	°C	ISO 75-2/Be
1.8 MPa, not annealed	143	°C	ISO 75-2/Ae
Vicat Softening Temperature	118	°C	ISO 306/B50
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: 220 - 260 °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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