

Borealis PP EE189HPB

Polypropylene

Borealis AG

Message:

EE189HPB is a 16% mineral filled polypropylene compound intended for injection moulding.

General Information			
Filler / Reinforcement	Mineral filler, 16% filler by weight		
Features	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
	Scratch resistance		
Uses	Application in Automobile Field		
	Car interior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.01	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1750	MPa	ISO 527-2/1
Tensile Stress (23°C)	22.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	5.0	%	ISO 527-2/50
Flexural Modulus ¹	1850	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.5	kJ/m ²	ISO 179/1eA
23°C	26	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	95	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	94.0	°C	ISO 75-2/Be
1.8 MPa, not annealed	52.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	51.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flammability	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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