

Borealis PP EH105AEB

Compounded Polypropylene

Borealis AG

Message:

EH105AEB is a 10% mineral filled elastomer modified polypropylene compound intended for injection moulding.

General Information			
Filler / Reinforcement	Mineral filler, 10% filler by weight		
Features	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
	Scratch resistance		
	Excellent appearance		
Uses	Car anti-collision bar		
	Automotive exterior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.950	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	36	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1300	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	17.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2/50
Flexural Modulus ¹	1100	MPa	ISO 178
Flexural Stress	21.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m ²	ISO 179/1eA
23°C	50	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C	8.0	kJ/m ²	ISO 180/1A
23°C	51	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, not annealed	83.0	°C	ISO 75-2/Be
1.8 MPa, not annealed	52.0	°C	ISO 75-2/Ae
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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