

Borealis PP SR533

Polypropylene

Borealis AG

Message:

SR533 is a polypropylene compound intended for injection moulding.

General Information			
Features	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
Uses	Car anti-collision bar		
	Application in Automobile Field		
	Automotive exterior parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	70		ISO 2039-2
Durometer Hardness (Shore D)	56		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	20.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	5.0	%	ISO 527-2/50
Flexural Modulus ¹	800	MPa	ISO 178
Flexural Stress	21.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	6.0	kJ/m ²	ISO 180/1A
23°C	40	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	°C	ISO 75-2/A
Vicat Softening Temperature	54.0	°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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