

Borealis PP PSC63T20

Polypropylene
Borealis AG

Technical Data

Product Description

PSC63T20 is a 20% talc filled easy flow grade intended for injection molding.

PSC63T20 has been developed especially for the car industry, to be used in interior parts.

General

Filler / Reinforcement	• Talc Filler, 20% Filler by Weight		
Features	• Good Flow		
Uses	• Automotive Applications	• Automotive Interior Parts	• Automotive Interior Trim
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	1.07 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)		ISO 1133
230°C/2.16 kg	22 g/10 min	
230°C/5.0 kg	120 g/10 min	
Molding Shrinkage	1.2 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Stress		ISO 527-2/50
Yield, 23°C, Injection Molded	25.6 MPa	
Tensile Strain		ISO 527-2/50
Yield, 23°C, Injection Molded	2.8 %	
Flexural Modulus ² (23°C, Injection Molded)	2200 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-20°C	2.6 kJ/m ²	
23°C	4.0 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-20°C	37 kJ/m ²	
23°C	90 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 358/30)	67.0 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	109 °C	ISO 75-2/B
1.8 MPa, Unannealed	60.0 °C	ISO 75-2/A
Vicat Softening Temperature		
--	150 °C	ISO 306/A50
--	70.0 °C	ISO 306/B50

Additional Information

The value listed as Molding Shrinkage ISO 294-4 was tested in accordance with Borealis Method.

Injection	Nominal Value Unit
Drying Temperature	80.0 °C
Drying Time	3.0 hr
Processing (Melt) Temp	210 to 260 °C

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Injection	Nominal Value Unit
Mold Temperature	30.0 to 50.0 °C
Injection Rate	Moderate

