

Borealis PP SC101

Polypropylene

Borealis AG

Message:

SC101 is a 20% mineral filled polypropylene compound intended for injection moulding.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
	Good chemical resistance		
	Thermal Stability		
Uses	Electrical appliances		
	Household goods		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	30.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	5.0	%	ISO 527-2/50
Flexural Modulus ¹	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	3.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	70.0	°C	ISO 75-2/Ae
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Mold Temperature	20.0 - 40.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			

Mess Temperature: 200 - 240 °CHolding Pressure: 50 - 70 % of Injection Pressure

NOTE

1. 2.0 mm/min

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