

Borealis PP PS65C40

Polypropylene

Borealis AG

Message:

PS65C40 is a 40% mineral filled polypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness, gives a good surface quality and is easy to process.

General Information			
Filler / Reinforcement	Mineral filler, 40% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
	Workability, good		
Uses	Home appliance components		
	Household goods		
Appearance	White		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction: 2.00mm	1.0	%	Internal method
Flow direction: 2.00mm	0.90	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2/1
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/50
Flexural Modulus ¹	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.1	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	113	°C	ISO 75-2/B
1.8 MPa, not annealed	62.0	°C	ISO 75-2/A

Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	105	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Hopper Temperature	40.0 - 80.0	°C	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Back pressure: Low to mediumScrew speed: Low to mediumFlow front speed: 100 - 200 mm/s			
NOTE			
1.	2.0 mm/min		

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