

Borealis PP MS65T40

Polypropylene

Borealis AG

Message:

MS65T40 is a 40% mineral filled polypropylene compound intended for injection moulding.
This material has excellent balanced mechanical properties and is easy to process.

General Information			
UL YellowCard	E108112-218658		
Filler / Reinforcement	Mineral filler, 40% filler by weight		
Additive	heat stabilizer		
Features	Workability, good		
	Thermal Stability		
Uses	Parts under the hood of a car		
	Application in Automobile Field		
	Car interior parts		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage	0.90	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	82.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	3500	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	30.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	3.2	%	ISO 527-2/50
Flexural Modulus ¹ (Injection Molded)	3700	MPa	ISO 178
Flexural Stress (Injection Molded)	46.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C, injection molding	10	kJ/m ²	ISO 179/1eU
23°C, injection molding	20	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, Injection Molded)	2.5	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength			ISO 180/1U
-20°C, injection molding	9.0	kJ/m ²	ISO 180/1U
23°C, injection molding	14	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	120	°C	ISO 75-2/B
1.8 MPa, not annealed	72.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ISO 306/A
--	96.0	°C	ISO 306/B
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	3.00 - 6.00	MPa	
Injection instructions			
Feeding Temperature: 40 to 80°C Back Pressure: Low to Medium Screw Speed: Low to Medium Flow Front Speed: 100 to 200 m/min			
NOTE			
1.	2.0 mm/min		

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