Borealis PP MS64T20

Polypropylene

Borealis AG

Message:

MS64T20 is a 20% mineral filled polypropylene compound intended for injection moulding.
This material has excellent balanced mechanical properties and is easy to process.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Workability, good		
Uses	Car interior parts Automotive exterior parts		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.07	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	23	g/10 min	ISO 1133
Molding Shrinkage	1.1	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 132/10)	93.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	3100	MPa	ISO 527-2/1
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	5.0	%	ISO 527-2/50
Fracture	13	%	ISO 527-2/50
Flexural Modulus [1]	3200	MPa	ISO 178
Flexural Stress	56.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	0.60	kJ/m²	ISO 179/1eA
-20°C	1.2	kJ/m²	ISO 179/1eA
23°C	2.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	15	kJ/m²	ISO 179/1eU
23°C	38	kJ/m²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	2.1	kJ/m²	ISO 180/1A
23°C	4.0	kJ/m²	ISO 180/1A

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	66.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ISO 306/A50
--	97.0	°C	ISO 306/B50
CLTE - Flow (-30°C)	5.6E-5	cm/cm/°C	Internal method
Flammability	Nominal Value	Unit	Test Method
Atomization-16 hrs (100°C)	5.0E-4	g	DIN 75201
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
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		

Recommended distributors for this material

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