

Borealis MS64T20 Polypropylene Compound, Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

MS64T20 is a 20% mineral filled polypropylene compound intended for injection molding. This material has excellent balanced mechanical properties and is easy to process. Applications: automotive parts including cowl vent grilles, automotive interior applications, and automotive exterior applications. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-MS64T20-Polypropylene-Compound-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	Borealis Method; average process
Melt Flow	22.5 g/10 min @Load 2.16 kg, Temperature 230 °C	22.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	93.0 MPa	13500 psi	132N/10s; ISO 2039
Tensile Strength, Yield	32.0 MPa	4640 psi	50mm/min; ISO 527-2
Elongation at Break	13 %	13 %	50mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527-2
Tensile Modulus	3.10 GPa	450 ksi	1mm/min; ISO 527-2
Flexural Strength	56.0 MPa	8120 psi	ISO 178
Flexural Modulus	3.20 GPa	464 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	2.10 kJ/m ² @Temperature -20.0 °C	0.999 ft-lb/in ² @Temperature -4.00 °F	ISO 180/1A
	4.00 kJ/m ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	1.50 J/cm ² @Temperature -20.0 °C	7.14 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eU
	3.80 J/cm ² @Temperature 23.0 °C	18.1 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties _d	0.0600 J/cm ² Metric	0.285 ft-lb/in ² English	Comments _A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.120 J/cm ²	0.571 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	56.0 µm/m-°C	31.1 µin/in-°F	Borealis Method
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	ISO 75-2
Vicat Softening Point	97.0 °C	207 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	154 °C	309 °F	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Processing Properties	Metric	English	Comments
Processing Temperature	220 - 260 °C	428 - 500 °F	mass temperature
Feed Temperature	40.0 - 80.0 °C	104 - 176 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Injection Velocity	100 - 200 mm/sec	3.94 - 7.87 in/sec	
Hold Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

Descriptive Properties	Value	Comments
Back Pressure	low to medium	
Fogging (mg)	0.5	100°C, 16h; DIN 75201
Screw Speed	low to medium	

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