

Borealis ME268AI Polypropylene Compound, Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

Material Notes:

ME268AI is a 20% mineral filled polypropylene compound intended for injection molding. Applications: ME268AI has been developed especially for the car industry to be used in automotive interior parts including dashboards, pillar trims, and other automotive interior parts. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-ME268AI-Polypropylene-Compound-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	Borealis Method; average process
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	60.0 MPa	8700 psi	358 N/30s; ISO 2039
Tensile Strength at Break	10.0 MPa	1450 psi	ISO 527-2
Tensile Strength, Yield	26.0 MPa	3770 psi	50mm/min; ISO 527
Elongation at Break	10 %	10 %	ISO 527-2
Elongation at Yield	4.8 %	4.8 %	50mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1mm/min; ISO 527
Flexural Strength	36.0 MPa	5220 psi	at 3.5% strain; ISO 178
	37.0 MPa	5370 psi	at 5.5% strain; ISO 178
Flexural Modulus	2.40 GPa	348 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
	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	21.0 kJ/m ² @Temperature -20.0 °C	9.99 ft-lb/in ² @Temperature -4.00 °F	ISO 180/1U

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.240 J/cm ²	1.14 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 µm/m-°C	32.2 µin/in-°F	Borealis Method
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-2
Vicat Softening Point	66.0 °C	151 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Vicat Softening Point	140 °C	284 °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	3.00 - 6.00 MPa	435 - 870 psi	

Descriptive Properties	Value	Comments
Back Pressure	low to medium	

Emission (µgC/g) Descriptive Properties	< 50 Value	VDA 277 Comments
Fogging (mg)	< 2	100°C, 16h; DIN 75201
Screw Speed	low to medium	

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