

Borealis MG302Al Polypropylene Compound, Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

MG302Al is a 30% mineral filled polypropylene compound intended for injection and back injection molding. This material has an excellent balance between impact strength and stiffness and high melt flow rate. Applications: Tailgate claddings, and Doors inserts. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-MG302Al-Polypropylene-Compound-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Borealis Method; average process
Melt Flow	24 g/10 min	24 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	102 g/10 min	102 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	91.0 MPa	13200 psi	358 N/30s; ISO 2039
Tensile Strength, Yield	31.0 MPa	4500 psi	50mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50mm/min; ISO 527-2
Tensile Modulus	3.30 GPa	479 ksi	1mm/min; ISO 527-2
Flexural Modulus	3.25 GPa	471 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.120 J/cm ²	0.571 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.150 J/cm ²	0.714 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75-2
Vicat Softening Point	95.0 °C	203 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	155 °C	311 °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	
Emission (µgC/g)	33	VDA 277
Fogging (mg)	0.9	100°C, 16h; DIN 75201
Screw Speed	low to medium	

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