

Borealis Daplen™ EG103AI Polypropylene Compound, Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Mica Filler

Material Notes:

Daplen™ EG103AI is a 15 % mineral filled polypropylene compound intended for injection molding. This material has an excellent balance between impact strength and stiffness and high melt flow rate. Applications: Daplen™ EG103AI has been developed especially for the automotive industry including door panels and pockets, and other automotive interior parts. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EG103AI-Polypropylene-Compound-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	mold average;Borealis Method
Melt Flow	26 g/10 min @Load 2.16 kg, Temperature 230 °C	26 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	49.0 MPa	7110 psi	H 358/30
Tensile Strength, Yield	22.0 MPa	3190 psi	50mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.80 GPa	261 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.90 GPa	276 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	6.00 J/cm ² @Temperature -20.0 °C	28.6 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eU
	15.0 J/cm ² @Temperature 23.0 °C	71.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ² @Temperature -20.0 °C	1.43 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	1.50 J/cm ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Flow Temperature at 1.8 MPa (26.4 psi)	54.0 °C	129 °F	ISO 1842
Vicat Softening Point	54.0 °C @Load 5.10 kg	129 °F @Load 11.2 lb	ISO 306
	140 °C @Load 1.02 kg	284 °F @Load 2.25 lb	ISO 306

Processing Properties	Metric	English	Comments
Processing Temperature	220 - 260 °C	428 - 500 °F	mass temperature
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
Emission (µgC/g)	< 60	VDA 277
Fogging (mg)	< 2	DIN 75201;100°C, 16h
Screw Speed	low to medium	

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