

Borealis Daplen™ EG203AE Polypropylene Compound Elastomer and Mineral Modified

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

Material Notes:

Daplen EG203AE is a 20% mineral and elastomer modified polypropylene compound intended for injection molding. Daplen EG203AE is a material with excellent impact /stiffness ratio. Thanks to its low thermal expansion this material is suitable to mold parts requiring low change of dimensions over a broad temperature range. This product is optimized to give good surface aesthetics. Daplen EG203AE has been developed for rocker panels and exterior trims. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EG203AE-Polypropylene-Compound-Elastomer-and-Mineral-Modified.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Borealis Method
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 °C	25 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133/12

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	15.00 MPa	2176 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	6.0 %	6.0 %	At 50 mm/min; ISO 527-2
Flexural Modulus	1.25 GPa	181 ksi	At 5 mm/min; ISO 178
Izod Impact, Notched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	ISO 180/1A
	4.50 kJ/m ² @Temperature -20.0 °C	2.14 ft-lb/in ² @Temperature -4.00 °F	ISO 180/1A
Charpy Impact Unnotched	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	ISO 179/1eU
Charpy Impact, Notched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eA
	0.500 J/cm ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 μm/m-°C @Temperature 20.0 °C	27.8 μin/in-°F @Temperature 68.0 °F	DIN 53752

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.45 MPa (66 psi)	105 °C	221 °F	ISO 75-2
Shrinkage	0.100 % @Temperature 90.0 °C, Time 7200 sec	0.100 % @Temperature 194 °F, Time 2.00 hour	Post Shrinkage; Borealis Method

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	Polymer Mass Temp
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	

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