

Borealis Daplen™ EE103AE TPO Compound

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO) , Polypropylene (PP) , TPO

Material Notes:

Daplen EE103AE is a 10% mineral and elastomer modified polypropylene compound intended for injection molding. Daplen EE103AE 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 EE103AE has been developed especially for bumpers and exterior trims. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EE103AE-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Borealis Method
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
Tensile Strength, Yield	18.0 MPa	2610 psi	At 50 mm/min; ISO 527-2
Elongation at Break	60 %	60 %	At 50 mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.40 GPa	203 ksi	At 1 mm/min; ISO 527-2
Flexural Strength	24.5 MPa	3550 psi	ISO 178
Flexural Modulus	1.50 GPa	218 ksi	At 2 mm/min; ISO 178
Izod Impact, Notched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	ISO 179/1eU
Charpy Impact, Notched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	67.0 µm/m-°C @Temperature -30.0 -	37.2 µin/in-°F @Temperature -22.0 -	Borealis Method

Thermal Properties	80.0 °C Metric	176 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-2
Vicat Softening Point	45.0 °C	113 °F	B (50N); ISO 306
Shrinkage	0.150 % @Temperature 90.0 °C, Time 7200 sec	0.150 % @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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