

Borealis Daplen™ EE115T TPO Compound

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

Material Notes:

Daplen EE115T is a 10% mineral and elastomer modified polypropylene compound intended for injection molding. Daplen EE115T 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 EE115T has been developed especially for bumpers, spoilers and exterior trims. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EE115T-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0085 - 0.0095 cm/cm	0.0085 - 0.0095 in/in	Borealis Method
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	35.0 MPa	5080 psi	At 132 N/10 sec; ISO 2039
Tensile Strength, Yield	17.00 MPa	2465 psi	At 50 mm/min; ISO 527-2
Elongation at Break	450 %	450 %	At 50 mm/min; ISO 527-2
Elongation at Yield	7.0 %	7.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.15 GPa	167 ksi	At 1 mm/min; ISO 527-2
Flexural Modulus	1.10 GPa	160 ksi	At 2 mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	ISO 179/1eU
Charpy Impact, Notched	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/1eA
	0.500 J/cm ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.650 J/cm ² @Temperature -20.0 °C	3.09 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	<= 85.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	<= 47.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Borealis Method
	@Temperature -30.0 - 80.0 $^{\circ}\text{C}$	@Temperature -22.0 - 176 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	87.0 $^{\circ}\text{C}$	189 $^{\circ}\text{F}$	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	49.0 $^{\circ}\text{C}$	120 $^{\circ}\text{F}$	ISO 75-2
Vicat Softening Point	126 $^{\circ}\text{C}$	259 $^{\circ}\text{F}$	A (10N); ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 $^{\circ}\text{C}$	428 - 500 $^{\circ}\text{F}$	Polymer Mass Temp
Mold Temperature	30.0 - 50.0 $^{\circ}\text{C}$	86.0 - 122 $^{\circ}\text{F}$	

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