

Borealis Daplen™ EE015U TPO Compound

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

Material Notes:

Daplen EE015U is a 10% mineral and elastomer modified polypropylene compound intended for injection molding. Daplen EE015U 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 EE015U 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-EE015U-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0085 - 0.0095 cm/cm	0.0085 - 0.0095 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
Ball Indentation Hardness	35.0 MPa	5080 psi	At 132 N/10 sec; ISO 2039
Tensile Strength, Yield	16.50 MPa	2393 psi	At 50 mm/min; ISO 527-2
Elongation at Break	100 %	100 %	At 50 mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.15 GPa	167 ksi	At 1 mm/min; ISO 527-2
Flexural Strength	24.5 MPa	3550 psi	ISO 178
Flexural Modulus	1.15 GPa	167 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	5.00 J/cm ²	23.8 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
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	<= 85.0 µm/m-°C @Temperature 100 °C	<= 47.2 µin/in-°F @Temperature 212 °F	Borealis Test
Deflection Temperature at 0.46 MPa (66 psi)	89.0 °C	192 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-2
Vicat Softening Point	47.0 °C	117 °F	B (50N); ISO 306
	132 °C	270 °F	A (10N); 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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