

Borealis Daplen™ EF040AE TPO Compound

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

Material Notes:

Daplen EF040AE is a elastomer modified polypropylene compound intended for injection molding. Daplen EF040AE 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. The product is optimized to give good surface aesthetics..Daplen EF040AE has been developed for automotive exterior applications, bumpers, and exterior trims.Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EF040AE-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0095 cm/cm	0.0095 in/in	Borealis Method
Melt Flow	22 g/10 min @Load 2.16 kg, Temperature 230 °C	22 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	330 %	330 %	At 50 mm/min; ISO 527-2
Elongation at Yield	8.5 %	8.5 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.04 GPa	151 ksi	At 1 mm/min; ISO 527-2
Flexural Strength	21.0 MPa	3050 psi	ISO 178
Flexural Modulus	1.05 GPa	152 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	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eA
	0.400 J/cm ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.550 J/cm ² @Temperature -20.0 °C	2.62 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	ISO 75-2
Vicat Softening Point	138 °C	280 °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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China