

Borealis Daplen™ EE109AE TPO Compound

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

Material Notes:

Daplen EE109AE is a 20% mineral and elastomer modified polypropylene compound intended for injection molding. Daplen EE109AE 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 EE109AE has been developed especially for bumpers, body side molding, and body panels. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EE109AE-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Borealis Method
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 230 °C	13 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.00 MPa	2465 psi	At 50 mm/min; ISO 527-2
Elongation at Break	70 %	70 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.40 GPa	203 ksi	At 1 mm/min; ISO 527-2
Flexural Modulus	1.50 GPa	218 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
	0.500 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	60.0 µm/m-°C @Temperature -30.0 - 80.0 °C	33.3 µin/in-°F @Temperature -22.0 - 176 °F	Borealis Method
	0.100 %	0.100 %	

Shrinkage Thermal Properties	Metric @ Temperature 90.0 °C, Time 7200 sec	English @ Temperature 194 °F, Time 2.00 hour	Post Shrinkage; Borealis Method Comments

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