

Borealis Daplen™ ED213AE TPO Compound

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

Material Notes:

Daplen ED213AE is a 20% mineral and elastomer modified polypropylene compound intended for injection molding. Daplen ED213AE 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 ED213AE has been developed especially for rocker panels and exterior trims. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-ED213AE-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Borealis Method
Melt Flow	6.5 g/10 min @Load 2.16 kg, Temperature 230 °C	6.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	16.0 MPa	2320 psi	At 50 mm/min; ISO 527-2
Elongation at Break	80 %	80 %	At 50 mm/min; ISO 527-2
Elongation at Yield	4.7 %	4.7 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	At 1 mm/min; ISO 527-2
Flexural Strength	24.5 MPa	3550 psi	ISO 178
Flexural Modulus	1.70 GPa	247 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	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
	1.00 J/cm ²	4.76 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
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	43.0 °C	109 °F	ISO 75-2
Vicat Softening Point	39.0 °C	102 °F	B (50N); ISO 306
	118 °C	244 °F	A (10N); ISO 306
Shrinkage	0.100 % @Temperature 90.0 °C, Time 7200 sec	0.100 % @Temperature 194 °F, Time 2.00 hour	Post Shrinkage; Borealis Method
Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	

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