

Borealis Daplen™ VB4411 TPO Compound

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

Material Notes:

Daplen VB4411 is a 10% mineral and elastomer modified polypropylene compound intended for injection molding. Daplen VB4411 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 VB4411 has been developed for bumper exterior trims. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-VB4411-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 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
Tensile Strength, Yield	16.0 MPa	2320 psi	At 50 mm/min; ISO 527-2
Elongation at Break	400 %	400 %	At 50 mm/min; ISO 527-2
Elongation at Yield	7.0 %	7.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.20 GPa	174 ksi	At 1 mm/min; ISO 527-2
Flexural Strength	22.0 MPa	3190 psi	ISO 178
Flexural Modulus	1.20 GPa	174 ksi	At 2 mm/min; ISO 178
Izod Impact, Notched (ISO)	33.0 kJ/m ²	15.7 ft-lb/in ²	ISO 180/1A
	5.00 kJ/m ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	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	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.0 °C	178 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	48.0 °C	118 °F	ISO 75-2
Vicat Softening Point	43.0 °C	109 °F	B (50N); ISO 306
	118 °C	244 °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	
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