

Borealis Daplen™ AK4504 TPO Compound

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

Material Notes:

Daplen AK4504 is a 30% mineral and elastomer modified polypropylene compound intended for injection molding. Daplen AK4504 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 AK4504 is designed for acoustic applications, climate control housing, and cowl vent grill. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-AK4504-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	Borealis Method
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 °C	20 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	10.0 MPa	1450 psi	At 50 mm/min; ISO 527-2
Elongation at Break	450 %	450 %	At 50 mm/min; ISO 527-2
	450 %	450 %	At 50 mm/min; ISO 527-2
Tensile Modulus	0.380 GPa	55.1 ksi	At 1 mm/min; ISO 527-2
Flexural Strength	9.30 MPa	1350 psi	ISO 178
Flexural Modulus	0.400 GPa	58.0 ksi	At 2 mm/min; ISO 178
Charpy Impact, Notched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eA
	0.250 J/cm ² @Temperature -30.0 °C	1.19 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.300 J/cm ² @Temperature -20.0 °C	1.43 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	55.0 °C	131 °F	ISO 75-2
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	54.0 °C Metric	129 °F English	ISO 75-2 Comments
Vicat Softening Point	75.0 °C	167 °F	B (50N); ISO 306
	96.0 °C	205 °F	A (10N); ISO 306

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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