

Borealis Daplen™ ED206HP TPO Compound

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

Material Notes:

Daplen ED206HP is a 25% mineral reinforced compound intended for injection molding. ED206HP has been developed especially for the car industry, to be used in interior parts requiring excellent scratch resistance. ED206HP has good processability with optimized physical properties. Daplen ED205HP has been developed especially for dashboards, interior panels, dashboard inserts, door panels and pockets, and consoles. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-ED206HP-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Borealis Method
Melt Flow	7.0 g/10 min	7.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	30 g/10 min	30 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ISO 868
Ball Indentation Hardness	35.0 MPa	5080 psi	H385/30; ISO 2039
Tensile Strength, Yield	20.0 MPa	2900 psi	At 50 mm/min; ISO 527-2
Flexural Strength	20.0 MPa	2900 psi	ISO 178
Flexural Modulus	1.92 GPa	278 ksi	At 2 mm/min; ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	6.20 J/cm ²	29.5 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.520 J/cm ²	2.47 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75-2
Vicat Softening Point	56.0 °C	133 °F	B (50N); ISO 306
	135 °C	275 °F	A (10N); ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	30.0 - 60.0 °C	86.0 - 140 °F	

Descriptive Properties	Value	Comments
Emissions, ug C/g	24	VDA 277
Fogging %	98	At 100°C/3 hours
Fogging, mg	0.4	At 100°C/ 16 hours

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