

Borealis Daplen™ EE188HP Polypropylene TPO Compound

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Mica Filler , Polypropylene, Mineral Reinforced

Material Notes:

Daplen™ EE188HP is a 15% mineral filled elastomer modified polypropylene compound intended for injection molding. This material has an excellent balance between impact strength and stiffness and gives a good surface quality. Applications: Daplen™ EE188HP has been developed especially for the car industry to be used in automotive interior parts including center consoles, dashboards, door panels and pockets, pillar trims, deat claddings, and automotive interior applications. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EE188HP-Polypropylene-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0095 cm/cm	0.0095 in/in	mold average;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
Ball Indentation Hardness	44.0 MPa	6380 psi	358 N/30s; ISO 2039
Tensile Strength, Yield	22.0 MPa	3190 psi	50mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.85 GPa	268 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.90 GPa	276 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	6.00 J/cm ² @Temperature -20.0 °C	28.6 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ² @Temperature -20.0 °C	1.67 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	2.20 J/cm ² @Temperature 23.0 °C	10.5 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (69 psi)	95.0 °C	203 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	54.0 °C	129 °F	ISO 75-2
Vicat Softening Point	54.0 °C	129 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	132 °C	270 °F	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Processing Properties	Metric	English	Comments
Processing Temperature	220 - 260 °C	428 - 500 °F	mass temperature
Feed Temperature	40.0 - 80.0 °C	104 - 176 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Injection Velocity	100 - 200 mm/sec	3.94 - 7.87 in/sec	
Hold Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

Descriptive Properties	Value	Comments
Back Pressure	low to medium	
Emission (µgC/g)	< 50	VDA 277
Fogging (mg)	< 2	DIN 75201;100°C, 16h
Screw Speed	low to medium	

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