

Borealis Daplen™ EE189AI Polypropylene TPO Compound

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

Material Notes:

Daplen™ EE189AI is a 15% mineral filled polypropylene compound intended for injection molding. This material has an excellent balance between impact strength and stiffness and is easy to process. Applications: Daplen™ EE189AI has been developed especially for the car industry to be used in automotive interior parts including dashboards, door panels and pockets, and other automotive interior parts. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EE189AI-Polypropylene-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	mold average;Borealis Method
Melt Flow	11 g/10 min	11 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	40 g/10 min	40 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	50.0 MPa	7250 psi	358 N/30s; ISO 2039
Tensile Strength, Yield	22.0 MPa	3190 psi	50mm/min; ISO 527-2
Elongation at Break	21 %	21 %	50mm/min; ISO 527-2
Elongation at Yield	4.5 %	4.5 %	50mm/min; ISO 527-2
Tensile Modulus	1.85 GPa	268 ksi	1mm/min; ISO 527-2
Flexural Strength	30.0 MPa	4350 psi	ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	53.0 °C	127 °F	ISO 75-2
Vicat Softening Point	55.0 °C	131 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	136 °C	277 °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	3.00 - 6.00 MPa	435 - 870 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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