

Borealis Daplen™ EF341AE Polypropylene TPO Compound

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

Material Notes:

Daplen™ EF341AE is a 30% mineral filled elastomer modified polypropylene compound intended for injection molding. This material has excellent balanced mechanical properties, gives a good surface quality and is easy to process. Applications: Daplen™ EF341AE has been developed especially for the car industry to be used in automotive exterior parts including fender liners, body panels, and tailgates. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EF341AE-Polypropylene-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.145 g/cc	0.04137 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	post shrinkage; 2 hours, 90°C
	0.0075 cm/cm	0.0075 in/in	mold average;Borealis Method
Melt Flow	15 g/10 min	15 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	63.0 MPa	9140 psi	132 N/10s; ISO 2039
Tensile Strength, Yield	25.0 MPa	3630 psi	50mm/min; ISO 527-2
Elongation at Break	20 %	20 %	50mm/min; ISO 178
Elongation at Yield	2.6 %	2.6 %	50mm/min; ISO 527-2
Tensile Modulus	3.10 GPa	450 ksi	1mm/min; ISO 527-2
Flexural Strength	37.0 MPa	5370 psi	ISO 178
Flexural Modulus	3.30 GPa	479 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	2.80 kJ/m ²	1.33 ft-lb/in ²	ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.90 J/cm ²	13.8 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	6.30 J/cm ²	30.0 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 179/1eJ Comments
Charpy Impact, Notched	0.240 J/cm ²	1.14 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.750 J/cm ²	3.57 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 µm/m-°C	30.0 µin/in-°F	Borealis Method
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	123 °C	253 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75-2
Vicat Softening Point	64.0 °C	147 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	150 °C	302 °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	
Screw Speed	low to medium	

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