

Borealis Daplen™ EF209AE Polypropylene TPO Compound

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

Material Notes:

Daplen™ EF209AE is a 20% 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™ EF209AE has been developed especially for the automotive industry including bumpers and exterior trims. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EF209AE-Polypropylene-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	mold average; Borealis Method
Melt Flow	22 g/10 min @Load 2.16 kg, Temperature 230 °C	22 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.0 MPa	2470 psi	ISO 527-2
Elongation at Break	300 %	300 %	ISO 527-2
Tensile Modulus	1.60 GPa	232 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.70 GPa	247 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m² @Temperature -20.0 °C	2.38 ft-lb/in² @Temperature -4.00 °F	ISO 180/1A
	50.0 kJ/m² @Temperature 23.0 °C	23.8 ft-lb/in² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact, Notched	0.550 J/cm² @Temperature -20.0 °C	2.62 ft-lb/in² @Temperature -4.00 °F	ISO 179/1eA
	6.00 J/cm² @Temperature 23.0 °C	28.6 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 µm/m-°C @Temperature -30.0 - 80.0 °C	25.0 µin/in-°F @Temperature -22.0 - 176 °F	Borealis Method

Thermal Properties	Metric	English	Comments
Temperature at 1.8 MPa (264 psi)			
Vicat Softening Point	120 °C @Load 1.02 kg	248 °F @Load 2.25 lb	ISO 306

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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