

Borealis Daplen™ EF267AI Polypropylene TPO Compound

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

Material Notes:

Daplen™ EF267AI is a 20 % 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: dashboards, door panels and pockets, other automotive interior parts, and center consoles. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EF267AI-Polypropylene-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	ISO 1183
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	mold average;Borealis Method
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 230 °C	16 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	61.0 MPa	8850 psi	H 358/30; ISO 2039
Tensile Strength at Break	10.0 MPa	1450 psi	ISO 527-2
Tensile Strength, Yield	27.0 MPa	3920 psi	50mm/min; ISO 527-2
Elongation at Break	5.3 %	5.3 %	flexural strain; ISO 178
	15 %	15 %	ISO 527-2
Elongation at Yield	4.0 %	4.0 %	50mm/min; ISO 527-2
Tensile Modulus	2.45 GPa	355 ksi	1mm/min; ISO 527-2
Flexural Strength	36.0 MPa	5220 psi	3.5% strain; ISO 178
	38.0 MPa	5510 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	2.60 kJ/m² @Temperature -20.0 °C	1.24 ft-lb/in² @Temperature -4.00 °F	ISO 180/1A
	6.40 kJ/m² @Temperature 23.0 °C	3.05 ft-lb/in² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	27.0 kJ/m²	12.8 ft-lb/in²	ISO 180/1U

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
	93.0 kJ/m²	44.3 ft-lb/in²	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.00 J/cm²	19.0 ft-lb/in²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	12.0 J/cm²	57.1 ft-lb/in²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.280 J/cm²	1.33 ft-lb/in²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.650 J/cm²	3.09 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 µm/m-°C	30.6 µin/in-°F	Borealis Method
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	ISO 75-2
Vicat Softening Point	67.0 °C	153 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	141 °C	286 °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	

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

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