

Borealis Daplen™ EE065AI Polypropylene Elastomer Modified

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

Material Notes:

Daplen™ EE065AI is an elastomer modified polypropylene with increased crystallinity. This material has an excellent balance between impact strength and stiffness. The product is available in natural color. Applications: automotive interior parts including door panels and pockets, and center consoles. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EE065AI-Polypropylene-Elastomer-Modified.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	Borealis Method
Melt Flow	11.5 g/10 min @Load 2.16 kg, Temperature 230 °C	11.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	43.0 MPa	6240 psi	H 358/30; ISO 2039
Tensile Strength at Break	15.0 MPa	2180 psi	ISO 527-2
Tensile Strength, Yield	21.0 MPa	3050 psi	50mm/min; ISO 527-2
Elongation at Break	150 %	150 %	50mm/min; ISO 527-2
Elongation at Yield	5.1 %	5.1 %	50mm/min; ISO 527-2
Tensile Modulus	1.10 GPa	160 ksi	1mm/min; ISO 527-2
Flexural Strength	22.5 MPa	3260 psi	3.5% strain; ISO 178
	25.0 MPa	3630 psi	ISO 178
Flexural Modulus	1.00 GPa	145 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	8.50 kJ/m ² @Temperature -20.0 °C	4.04 ft-lb/in ² @Temperature -4.00 °F	ISO 180/1A
	50.0 kJ/m ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	200 kJ/m ² @Temperature -20.0 °C	95.2 ft-lb/in ² @Temperature -4.00 °F	ISO 180/1U

Mechanical Properties	^{NB} Metric	^{NB} English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	22.0 J/cm²	105 ft-lb/in²	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	0.900 J/cm²	4.28 ft-lb/in²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	5.50 J/cm²	26.2 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	82.0 °C	180 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	53.0 °C	127 °F	ISO 75-2
Vicat Softening Point	56.0 °C	133 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	143 °C	289 °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 227
Fogging (mg)	<2	DIN 75201
Screw Speed	low to medium	

Descriptive Properties	Value	Comments
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