

Borealis EE002AE Polypropylene Elastomer Modified

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

Material Notes:

EE002AE is a reactor elastomer modified polypropylene compound intended for injection molding. The product is available in natural color. This material has excellent balanced mechanical properties and gives a good surface quality. Applications: automotive exterior applications including bumpers and exterior trims. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-EE002AE-Polypropylene-Elastomer-Modified.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	post shrinkage (2h/90°C)
	0.014 cm/cm	0.014 in/in	mold average
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	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ISO 868
Ball Indentation Hardness	36.0 MPa	5220 psi	132N/10s; ISO 2039
Tensile Strength, Yield	19.0 MPa	2760 psi	50mm/min; ISO 527-2
Elongation at Break	>= 150 %	>= 150 %	50mm/min; ISO 527-2
Elongation at Yield	5.5 %	5.5 %	50mm/min; ISO 527-2
Tensile Modulus	0.950 GPa	138 ksi	1mm/min; ISO 527-2
Flexural Strength	21.0 MPa	3050 psi	ISO 178
Flexural Modulus	0.900 GPa	131 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact Unnotched	57.0 kJ/m ²	27.1 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.850 J/cm ²	4.04 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	Borealis Method
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	48.0 °C	118 °F	ISO 75-2
Vicat Softening Point	45.0 °C	113 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	135 °C	275 °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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