

## Borealis Daplen™ EG250AI Polypropylene TPO Compound

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

### Material Notes:

Daplen™ EG250AI is a 20% mineral reinforced impact modified polypropylene compound suitable for injection molding. This material has an excellent balance between impact strength and stiffness, gives a good surface quality and is easy to process. Applications: dashboards, door panels and pockets, window frames, center consoles, and other automotive interior parts. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Daplen-EG250AI-Polypropylene-TPO-Compound.php](http://www.lookpolymers.com/polymer_Borealis-Daplen-EG250AI-Polypropylene-TPO-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	Borealis Method; anisotropic shrinkage
	0.0070 cm/cm	0.0070 in/in	Borealis Method; isotropic shrinkage
Melt Flow	20 g/10 min	20 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	35.0 MPa	5080 psi	H 358/30
Tensile Strength, Yield	21.0 MPa	3050 psi	50mm/min; ISO 527-2
Elongation at Yield	5.2 %	5.2 %	50mm/min; ISO 527-2
Tensile Modulus	1.75 GPa	254 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.80 GPa	261 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.250 J/cm <sup>2</sup>	1.19 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	ISO 75-2
Vicat Softening Point	49.0 °C	120 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	126 °C	259 °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 277
Fogging (mg)	< 2	DIN 75201; 100°C, 16h
Screw Speed	low to medium	

## Contact Songhan Plastic Technology Co.,Ltd.

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