

## Borealis Daplen™ EF261AI Polypropylene TPO Compound

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

### Material Notes:

Daplen™ EF261AI 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: Daplen™ EF261AI has been developed especially for the car industry to be used in automotive interior parts including dashboards, 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-EF261AI-Polypropylene-TPO-Compound.php](http://www.lookpolymers.com/polymer_Borealis-Daplen-EF261AI-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	0.0060 cm/cm	0.0060 in/in	mold average; Borealis Method
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 230 °C	14 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	32.0 MPa	4640 psi	H 358/30; ISO 2039
Tensile Strength at Break	12.0 MPa	1740 psi	ISO 527-2
Tensile Strength, Yield	18.0 MPa	2610 psi	50mm/min; ISO 527-2
Elongation at Break	4.9 %	4.9 %	flexural strain; ISO 178
	110 %	110 %	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.70 GPa	247 ksi	1mm/min; ISO 527-2
Flexural Strength	23.0 MPa	3340 psi	3.5% strain; ISO 178
	24.0 MPa	3480 psi	ISO 178
Flexural Modulus	1.80 GPa	261 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m <sup>2</sup> @Temperature -20.0 °C	2.14 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 180/1A
	38.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	18.1 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1A

Mechanical Properties (ISO)	Metric	English	Comments
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	NB	NB	ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	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	0.460 J/cm <sup>2</sup>	2.19 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	4.30 J/cm <sup>2</sup>	20.5 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 µm/m-°C	27.2 µin/in-°F	Borealis Method
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	ISO 75-2
Vicat Softening Point	42.0 °C	108 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	118 °C	244 °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	
Emission ( $\mu\text{C/g}$ )	< 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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