

## Borealis Daplen™ SB4411/2 Polypropylene Compound Elastomer and Mineral Modified

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

### Material Notes:

Daplen SB4411/2 is a 10% mineral and elastomer modified polypropylene compound intended for injection molding. The product is available in black, but other colors can be provided on request. Daplen SB4411/2 has been developed for bumper fascias and exterior trims. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Daplen-SB44112-Polypropylene-Compound-Elastomer-and-Mineral-Modified.php](http://www.lookpolymers.com/polymer_Borealis-Daplen-SB44112-Polypropylene-Compound-Elastomer-and-Mineral-Modified.php)

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0105 cm/cm	0.0105 in/in	Borealis Method
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	
	50 g/10 min	50 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	28.0 MPa	4060 psi	H385/30; ISO 2039
Tensile Strength, Yield	15.70 MPa	2277 psi	At 50 mm/min; ISO 527-2
Flexural Modulus	0.930 GPa	135 ksi	At 1 mm/min; ISO 178
Izod Impact, Notched (ISO)	33.0 kJ/m <sup>2</sup>	15.7 ft-lb/in <sup>2</sup>	ISO 180/1A
	5.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/1A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	3.30 J/cm <sup>2</sup>	15.7 ft-lb/in <sup>2</sup>	ISO 179/1eA
	0.500 J/cm <sup>2</sup> @Temperature -30.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA
	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 179/1eA

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear	75.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 80.0 °C	41.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 176 °F	Borealis Method
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO 75-2
Vicat Softening Point	43.0 °C	109 °F	B (50N); ISO 306
	118 °C	244 °F	A (10N); ISO 306
Shrinkage	0.150 % @Temperature 90.0 °C, Time 7200 sec	0.150 % @Temperature 194 °F, Time 2.00 hour	Post Shrinkage; Borealis Method
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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