

Borealis Daplen™ EE108U Polypropylene TPO Compound

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

Material Notes:

Daplen™ EE108U is a 10% mineral filled elastomer modified polypropylene compound intended 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: body side moldings, bumpers, and exterior trims. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EE108U-Polypropylene-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Borealis Method
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 230 °C	16 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	31.0 MPa	4500 psi	132 N/10s; ISO 2039
Tensile Strength, Yield	16.0 MPa	2320 psi	50mm/min; ISO 527-2
Elongation at Break	>= 100 %	>= 100 %	50mm/min; ISO 527-2
Elongation at Yield	8.0 %	8.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.00 GPa	145 ksi	1mm/min; ISO 527-2
Flexural Strength	20.0 MPa	2900 psi	ISO 178
Flexural Modulus	1.10 GPa	160 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m² @Temperature -20.0 °C	2.38 ft-lb/in² @Temperature -4.00 °F	ISO 180/1A
	37.0 kJ/m² @Temperature 23.0 °C	17.6 ft-lb/in² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	ISO 179/1eU

Mechanical Properties _A	Metric	English	Comments _A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	61.0 µm/m-°C	33.9 µin/in-°F	Borealis Method
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	51.0 °C	124 °F	ISO 75-2
Vicat Softening Point	42.0 °C	108 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	115 °C	239 °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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China