

Borealis Daplen™ EE340AE Polypropylene TPO Compound

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

Material Notes:

Daplen™ EE340AE is a 30% mineral filled elastomer modified polypropylene compound intended for injection molding. This material has excellent balanced mechanical properties, gives a good surface quality and is easy to process. Applications: Daplen™ EE340AE has been developed especially for the car industry to be used in automotive exterior parts including rocker panels. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Daplen-EE340AE-Polypropylene-TPO-Compound.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	post shrinkage; 2 hours, 90°C
	0.0050 cm/cm	0.0050 in/in	mold average; Borealis Method
Melt Flow	12 g/10 min	12 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	29.0 MPa	4210 psi	132 N/10s; ISO 2039
Tensile Strength, Yield	16.0 MPa	2320 psi	50mm/min; ISO 527-2
Elongation at Break	50 %	50 %	50mm/min; ISO 527-2
Elongation at Yield	6.0 %	6.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	1mm/min; ISO 527-2
Flexural Strength	24.0 MPa	3480 psi	ISO 178
Flexural Modulus	1.70 GPa	247 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m²	2.38 ft-lb/in²	ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	32.0 kJ/m²	15.2 ft-lb/in²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	7.70 J/cm²	36.6 ft-lb/in²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	NB	NB	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 179/1eJ Comments
Charpy Impact, Notched	0.320 J/cm²	1.52 ft-lb/in²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.460 J/cm²	2.19 ft-lb/in²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	4.90 J/cm²	23.3 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 µin/in-°F	Borealis Method
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	101 °C	214 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	54.0 °C	129 °F	ISO 75-2
Vicat Softening Point	39.0 °C	102 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	128 °C	262 °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