

## Borealis Daplen™ EE168AI Polypropylene TPO Compound

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

### Material Notes:

Daplen™ EE168AI is a 10% 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™ EE168AI has been developed especially for the car industry to be used in automotive interior parts including dashboards, pillar trims, door panels and pockets, and automotive interior applications. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Daplen-EE168AI-Polypropylene-TPO-Compound.php](http://www.lookpolymers.com/polymer_Borealis-Daplen-EE168AI-Polypropylene-TPO-Compound.php)

| Physical Properties   | Metric                                              | English                                             | Comments        |
|-----------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------|
| Density               | 0.990 g/cc                                          | 0.0358 lb/in³                                       | ISO 1183        |
| Linear Mold Shrinkage | 0.011 cm/cm                                         | 0.011 in/in                                         | Borealis Method |
| Melt Flow             | 14 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 14 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ISO 1133        |

| Mechanical Properties      | Metric                               | English                                 | Comments            |
|----------------------------|--------------------------------------|-----------------------------------------|---------------------|
| Tensile Strength, Yield    | 20.0 MPa                             | 2900 psi                                | 50mm/min; ISO 527-2 |
| Elongation at Yield        | 4.0 %                                | 4.0 %                                   | 50mm/min; ISO 527-2 |
| Tensile Modulus            | 1.70 GPa                             | 247 ksi                                 | 1mm/min; ISO 527-2  |
| Flexural Strength          | 30.0 MPa                             | 4350 psi                                | ISO 178             |
| Flexural Modulus           | 1.75 GPa                             | 254 ksi                                 | 2mm/min; ISO 178    |
| Izod Impact, Notched (ISO) | 4.00 kJ/m²<br>@Temperature -20.0 °C  | 1.90 ft-lb/in²<br>@Temperature -4.00 °F | ISO 180/1A          |
|                            | 28.0 kJ/m²<br>@Temperature 23.0 °C   | 13.3 ft-lb/in²<br>@Temperature 73.4 °F  | ISO 180/1A          |
| Charpy Impact Unnotched    | 11.0 J/cm²<br>@Temperature -20.0 °C  | 52.3 ft-lb/in²<br>@Temperature -4.00 °F | ISO 179/1eU         |
|                            | NB<br>@Temperature 23.0 °C           | NB<br>@Temperature 73.4 °F              | ISO 179/1eU         |
| Charpy Impact, Notched     | 0.500 J/cm²<br>@Temperature -20.0 °C | 2.38 ft-lb/in²<br>@Temperature -4.00 °F | ISO 179/1eA         |

| Mechanical Properties | Metric               | English              | Comments    |
|-----------------------|----------------------|----------------------|-------------|
|                       | @Temperature 23.0 °C | @Temperature 73.4 °F | ISO 178/1eA |

| Thermal Properties                          | Metric                   | English                 | Comments |
|---------------------------------------------|--------------------------|-------------------------|----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 97.0 °C                  | 207 °F                  | ISO 75-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 54.0 °C                  | 129 °F                  | ISO 75-2 |
| Vicat Softening Point                       | 55.0 °C<br>@Load 5.10 kg | 131 °F<br>@Load 11.2 lb | ISO 306  |
|                                             | 140 °C<br>@Load 1.02 kg  | 284 °F<br>@Load 2.25 lb | ISO 306  |

| 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