

## Borealis Daplen™ EE137AI Polypropylene Compound 10% Mineral Filled

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

### Material Notes:

Daplen EE137AI is a 10% mineral filled grade intended for injection molding. EE137AI has been developed especially for the car industry, to be used in interior parts where high scratch resistance is a necessity. EE138AI offers good balance in stiffness/impact strength and has very good scratch resistance. Daplen EE137AI has been developed especially for dashboards, pillar trims, door panels and pockets, and other automotive interior parts. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Daplen-EE137AI-Polypropylene-Compound-10-Mineral-Filled.php](http://www.lookpolymers.com/polymer_Borealis-Daplen-EE137AI-Polypropylene-Compound-10-Mineral-Filled.php)

| Physical Properties   | Metric                               | English                              | Comments        |
|-----------------------|--------------------------------------|--------------------------------------|-----------------|
| Density               | 0.960 g/cc                           | 0.0347 lb/in <sup>3</sup>            | ISO 1183        |
| Linear Mold Shrinkage | 0.0011 cm/cm                         | 0.0011 in/in                         | Borealis Method |
| Melt Flow             | 12 g/10 min                          | 12 g/10 min                          | ISO 1133        |
|                       | @Load 2.16 kg,<br>Temperature 230 °C | @Load 4.76 lb,<br>Temperature 446 °F |                 |
|                       | 45 g/10 min                          | 45 g/10 min                          | ISO 1133        |
|                       | @Load 5.00 kg,<br>Temperature 230 °C | @Load 11.0 lb,<br>Temperature 446 °F |                 |

| Mechanical Properties      | Metric                                          | English                                             | Comments                |
|----------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------|
| Ball Indentation Hardness  | 42.0 MPa                                        | 6090 psi                                            | H385/30; ISO 2039       |
| Tensile Strength, Yield    | 20.99 MPa                                       | 3045 psi                                            | At 50 mm/min; ISO 527-2 |
| Elongation at Yield        | 6.0 %                                           | 6.0 %                                               | At 50 mm/min; ISO 527-2 |
| Tensile Modulus            | 1.85 GPa                                        | 268 ksi                                             | At 1 mm/min; ISO 527-2  |
| Flexural Modulus           | 1.70 GPa                                        | 247 ksi                                             | At 2 mm/min; ISO 178    |
| Izod Impact, Notched (ISO) | 25.0 kJ/m <sup>2</sup>                          | 11.9 ft-lb/in <sup>2</sup>                          | ISO 180/1A              |
|                            | 5.00 kJ/m <sup>2</sup><br>@Temperature 0.000 °C | 2.38 ft-lb/in <sup>2</sup><br>@Temperature 32.0 °F  |                         |
| Charpy Impact Unnotched    | 16.0 J/cm <sup>2</sup>                          | 76.1 ft-lb/in <sup>2</sup>                          | ISO 179/1eU             |
|                            | 6.00 J/cm <sup>2</sup><br>@Temperature -20.0 °C | 28.6 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F |                         |
| Charpy Impact, Notched     | 2.00 J/cm <sup>2</sup>                          | 9.52 ft-lb/in <sup>2</sup>                          | ISO 179/1eA             |

| Mechanical Properties | 0.450 J/cm²<br>Metric | 2.14 ft-lb/in²<br>English | Comments<br>ISO 179/15A |
|-----------------------|-----------------------|---------------------------|-------------------------|
|                       | @Temperature -20.0 °C | @Temperature -4.00 °F     |                         |

| Thermal Properties                          | Metric  | English | Comments         |
|---------------------------------------------|---------|---------|------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 100 °C  | 212 °F  | ISO 75-2         |
| Deflection Temperature at 1.8 MPa (264 psi) | 55.0 °C | 131 °F  | ISO 75-2         |
| Vicat Softening Point                       | 54.0 °C | 129 °F  | B (50N); ISO 306 |
|                                             | 136 °C  | 277 °F  | A (10N); ISO 306 |

| Processing Properties | Metric         | English       | Comments |
|-----------------------|----------------|---------------|----------|
| 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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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