

## Polykemi AB POLYblend 65 M10 PC/ABS-blend, Reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

### Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYblend-65-M10-PCABS-blend-Reinforced.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYblend-65-M10-PCABS-blend-Reinforced.php)

| Physical Properties    | Metric                                              | English                                             | Comments      |
|------------------------|-----------------------------------------------------|-----------------------------------------------------|---------------|
| Density                | 1.18 g/cc                                           | 0.0426 lb/in <sup>3</sup>                           | ISO 1183      |
| Filler Content         | 10 %                                                | 10 %                                                | ±2%; Polykemi |
| Melt Index of Compound | 25 g/10 min<br>@Load 5.00 kg,<br>Temperature 260 °C | 25 g/10 min<br>@Load 11.0 lb,<br>Temperature 500 °F | ISO 1133      |

| Mechanical Properties     | Metric                                           | English                                             | Comments |
|---------------------------|--------------------------------------------------|-----------------------------------------------------|----------|
| Tensile Strength at Break | <= 48.0 MPa                                      | <= 6960 psi                                         | ISO/R527 |
| Elongation at Break       | 109 %                                            | 109 %                                               | ISO/R527 |
| Flexural Strength         | <= 85.0 MPa                                      | <= 12300 psi                                        | ISO 178  |
| Flexural Modulus          | 3.90 GPa<br>@Temperature 23.0 °C                 | 566 ksi<br>@Temperature 73.4 °F                     | ISO 178  |
| Charpy Impact, Notched    | 0.750 J/cm <sup>2</sup><br>@Temperature -20.0 °C | 3.57 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F | ISO 179  |
|                           | 3.20 J/cm <sup>2</sup><br>@Temperature 23.0 °C   | 15.2 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F  | ISO 179  |

| Thermal Properties                          | Metric                   | English                    | Comments          |
|---------------------------------------------|--------------------------|----------------------------|-------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 125 °C                   | 257 °F                     | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 98.0 °C                  | 208 °F                     | 120°C/h; ISO 75/1 |
| Vicat Softening Point                       | 110 °C<br>@Load 5.001 kg | 230 °F<br>@Load 11.03 lb   | 50°C/h; ISO 306   |
| Flammability, UL94                          | HB<br>@Thickness 1.60 mm | HB<br>@Thickness 0.0630 in |                   |

| Processing Properties | Metric           | English           | Comments               |
|-----------------------|------------------|-------------------|------------------------|
| Melt Temperature      | 240 - 280 °C     | 464 - 536 °F      |                        |
| Mold Temperature      | 70.0 - 100 °C    | 158 - 212 °F      |                        |
| Drying Temperature    | 100 - 110 °C     | 212 - 230 °F      |                        |
| Dry Time              | 2 - 8 hour       | 2 - 8 hour        | in circulation dryer   |
|                       | 2 - 8 hour       | 2 - 8 hour        | in fresh-air dryer     |
|                       | 2 - 8 hour       | 2 - 8 hour        | in desiccant air dryer |
| Injection Pressure    | 90.0 - 150 MPa   | 13100 - 21800 psi |                        |
| Back Pressure         | 0.500 - 1.50 MPa | 72.5 - 218 psi    |                        |

| Descriptive Properties | Value | Comments                |
|------------------------|-------|-------------------------|
| Holding Pressure ()    | 20-50 | % of injection pressure |
| Injection Speed ()     | High  |                         |

## Contact Songhan Plastic Technology Co.,Ltd.

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