

## Polykemi AB POLYblend 6005B PC/ABS-Blend

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYblend-6005B-PCABS-Blend.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYblend-6005B-PCABS-Blend.php)

| Physical Properties    | Metric                               | English                              | Comments              |
|------------------------|--------------------------------------|--------------------------------------|-----------------------|
| Density                | 1.08 g/cc                            | 0.0390 lb/in <sup>3</sup>            | ISO 1183              |
| Linear Mold Shrinkage  | 0.0080 - 0.010 cm/cm                 | 0.0080 - 0.010 in/in                 | With Flow; ISO 2577   |
|                        | 0.0080 - 0.010 cm/cm                 | 0.0080 - 0.010 in/in                 | Across Flow; ISO 2577 |
| Melt Index of Compound | 14 g/10 min                          | 14 g/10 min                          | ISO 1133              |
|                        | @Load 5.00 kg,<br>Temperature 240 °C | @Load 11.0 lb,<br>Temperature 464 °F |                       |

| Mechanical Properties     | Metric                 | English                    | Comments   |
|---------------------------|------------------------|----------------------------|------------|
| Hardness, Shore D         | 62                     | 62                         | ASTM D2240 |
|                           | @Time 15.0 sec         | @Time 0.00417 hour         |            |
| Tensile Strength at Break | <= 45.0 MPa            | <= 6530 psi                | ISO/R527   |
| Elongation at Break       | >= 80 %                | >= 80 %                    | ISO/R527   |
| Flexural Strength         | <= 60.0 MPa            | <= 8700 psi                | ISO 178    |
| Flexural Modulus          | 1.80 GPa               | 261 ksi                    | ISO 178    |
|                           | @Temperature 23.0 °C   | @Temperature 73.4 °F       |            |
| Charpy Impact, Notched    | 5.00 J/cm <sup>2</sup> | 23.8 ft-lb/in <sup>2</sup> | ISO 179    |
|                           | @Temperature 23.0 °C   | @Temperature 73.4 °F       |            |

| Thermal Properties                          | Metric         | English        | Comments          |
|---|----------------|----------------|-------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 96.0 °C        | 205 °F         | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 52.0 °C        | 126 °F         | 120°C/h; ISO 75/1 |
| Vicat Softening Point                       | 110 °C         | 230 °F         | 50°C/h; ISO 306   |
|   | @Load 5.001 kg | @Load 11.03 lb |                   |
|   | 190 °C         | 374 °F         |                   |

| Thermal Properties | Metric<br>@Load 1.00 kg      | English<br>@Load 2.21 lb        | 50°C/h ISO 306<br>Comments |
|--------------------|------------------------------|---------------------------------|----------------------------|
| Flammability, UL94 | HB<br>@Thickness 1.60 mm     | HB<br>@Thickness 0.0630 in      |                            |
| Glow Wire Test     | 650 °C<br>@Thickness 2.00 mm | 1200 °F<br>@Thickness 0.0787 in | IEC 695-2-1                |

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