

## Polykemi AB POLYfill PPC 12000 Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYfill-PPC-12000-Polypropylene-Copolymer.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPC-12000-Polypropylene-Copolymer.php)

| Physical Properties    | Metric                               | English                              | Comments              |
|------------------------|--------------------------------------|--------------------------------------|-----------------------|
| Density                | 0.900 g/cc                           | 0.0325 lb/in <sup>3</sup>            | ISO 1183              |
| Linear Mold Shrinkage  | 0.015 - 0.018 cm/cm                  | 0.015 - 0.018 in/in                  | With Flow; ISO 2577   |
|                        | 0.015 - 0.018 cm/cm                  | 0.015 - 0.018 in/in                  | Across Flow; ISO 2577 |
| Melt Index of Compound | 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 |                       |

| Mechanical Properties     | Metric                  | English                    | Comments |
|---------------------------|-------------------------|----------------------------|----------|
| Tensile Strength at Break | <= 25.0 MPa             | <= 3630 psi                | ISO/R527 |
| Elongation at Yield       | 8.0 %                   | 8.0 %                      | ISO/R527 |
| Flexural Modulus          | 1.30 GPa                | 189 ksi                    | ISO 178  |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |          |
| Charpy Impact, Notched    | 0.600 J/cm <sup>2</sup> | 2.86 ft-lb/in <sup>2</sup> | ISO 179  |
|                           | @Temperature -20.0 °C   | @Temperature -4.00 °F      |          |
|                           | 1.00 J/cm <sup>2</sup>  | 4.76 ft-lb/in <sup>2</sup> | ISO 179  |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |          |

| Thermal Properties                          | Metric             | English              | Comments          |
|---|--------------------|----------------------|-------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 56.0 °C            | 133 °F               | 120°C/h; ISO 75/1 |
| Vicat Softening Point                       | 146 °C             | 295 °F               | 50°C/h; ISO 306   |
|   | @Load 1.00 kg      | @Load 2.21 lb        |                   |
| Flammability, UL94                          | HB                 | HB                   |                   |
|   | @Thickness 2.00 mm | @Thickness 0.0787 in |                   |
| Glow Wire Test                              | 650 °C             | 1200 °F              | IEC 695-2-1       |
|   | @Thickness 2.00 mm | @Thickness 0.0787 in |                   |

Thermal Properties

Metric

English

Comments

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