

## Polykemi AB POLYfill PPC TS16020 LE Polypropylene Copolymer, Mineral Reinforced, Low Emission

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene with 20% Talc Filler

### Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYfill-PPC-TS16020-LE-Polypropylene-Copolymer-Mineral-Reinforced-Low-Emission.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPC-TS16020-LE-Polypropylene-Copolymer-Mineral-Reinforced-Low-Emission.php)

| Physical Properties    | Metric                                              | English                                             | Comments              |
|------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------|
| Density                | 1.04 g/cc                                           | 0.0376 lb/in <sup>3</sup>                           | ISO 1183              |
| Filler Content         | 20 %                                                | 20 %                                                | ±2%; Polykemi         |
| Linear Mold Shrinkage  | 0.010 - 0.013 cm/cm                                 | 0.010 - 0.013 in/in                                 | With Flow; ISO 2577   |
|                        | 0.010 - 0.013 cm/cm                                 | 0.010 - 0.013 in/in                                 | Across Flow; ISO 2577 |
| Melt Index of Compound | 16 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 16 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ISO 1133              |

| Mechanical Properties     | Metric                                          | English                                            | Comments |
|---------------------------|-------------------------------------------------|----------------------------------------------------|----------|
| Tensile Strength at Break | <= 28.0 MPa                                     | <= 4060 psi                                        | ISO/R527 |
| Elongation at Yield       | 6.0 %                                           | 6.0 %                                              | ISO/R527 |
| Flexural Strength         | <= 47.0 MPa                                     | <= 6820 psi                                        | ISO 178  |
| Flexural Modulus          | 2.00 GPa<br>@Temperature 23.0 °C                | 290 ksi<br>@Temperature 73.4 °F                    | ISO 178  |
| Charpy Impact, Notched    | 0.500 J/cm <sup>2</sup><br>@Temperature 23.0 °C | 2.38 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) | 110 °C                    | 230 °F                   | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.0 °C                   | 149 °F                   | 120°C/h; ISO 75/1 |
| Vicat Softening Point                       | 70.0 °C<br>@Load 5.001 kg | 158 °F<br>@Load 11.03 lb | 50°C/h; ISO 306   |
|                                             | 145 °C                    | 293 °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><br>@Thickness 1.60 mm | HB<br><br>@Thickness 0.0630 in |                            |

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