

## Polykemi AB POLYfill PPHC TS15020 Polypropylene, Mineral Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , 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-PPHC-TS15020-Polypropylene-Mineral-Reinforced.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPHC-TS15020-Polypropylene-Mineral-Reinforced.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 - 0.012 cm/cm                                 | 0.010 - 0.012 in/in                                 | With Flow; ISO 2577   |
|                        | 0.010 - 0.012 cm/cm                                 | 0.010 - 0.012 in/in                                 | Across Flow; ISO 2577 |
| Melt Index of Compound | 15 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 15 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       | 8.0 %                                            | 8.0 %                                               | ISO/R527 |
| Flexural Strength         | <= 44.0 MPa                                      | <= 6380 psi                                         | ISO 178  |
| Flexural Modulus          | 1.80 GPa<br>@Temperature 23.0 °C                 | 261 ksi<br>@Temperature 73.4 °F                     | ISO 178  |
| Charpy Impact, Notched    | 0.250 J/cm <sup>2</sup><br>@Temperature -20.0 °C | 1.19 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F | ISO 179  |
|                           | 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) | 60.0 °C                   | 140 °F                   | 120°C/h; ISO 75/1 |
| Vicat Softening Point                       | 81.0 °C<br>@Load 5.001 kg | 178 °F<br>@Load 11.03 lb | 50°C/h; ISO 306   |

| Thermal Properties | Metric             | English              | Comments         |
|--------------------|--------------------|----------------------|------------------|
|                    | @Load 1.00 kg      | @Load 2.21 lb        | 50 °C/h, ISO 306 |
| Flammability, UL94 | HB                 | HB                   |                  |
|                    | @Thickness 1.60 mm | @Thickness 0.0630 in |                  |
| Glow Wire Test     | 750 °C             | 1380 °F              | IEC 695-2-1      |
|                    | @Thickness 2.00 mm | @Thickness 0.0787 in |                  |

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