

## Polykemi AB POLYfill PPH T5040 FC Polypropylene Homopolymer, Mineral Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Talc Filler

### Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYfill-PPH-T5040-FC-Polypropylene-Homopolymer-Mineral-Reinforced.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPH-T5040-FC-Polypropylene-Homopolymer-Mineral-Reinforced.php)

| Physical Properties    | Metric                               | English                              | Comments              |
|------------------------|--------------------------------------|--------------------------------------|-----------------------|
| Density                | 1.23 g/cc                            | 0.0444 lb/in <sup>3</sup>            | ISO 1183              |
| Filler Content         | 40 %                                 | 40 %                                 | ±2%; Polykemi         |
| Linear Mold Shrinkage  | 0.0080 - 0.010 cm/cm                 | 0.0080 - 0.010 in/in                 | Across Flow; ISO 2577 |
|                        | 0.0080 - 0.010 cm/cm                 | 0.0080 - 0.010 in/in                 | With Flow; ISO 2577   |
| Melt Index of Compound | 5.0 g/10 min                         | 5.0 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  | <= 30.0 MPa             | <= 4350 psi                 | ISO/R527   |
| Elongation at Yield        | 4.0 %                   | 4.0 %                       | ISO/R527   |
| Flexural Strength          | <= 58.0 MPa             | <= 8410 psi                 | ISO 178    |
| Flexural Modulus           | 3.80 GPa                | 551 ksi                     | ISO 178    |
|                            | @Temperature 23.0 °C    | @Temperature 73.4 °F        |            |
| Izod Impact, Notched (ISO) | 3.00 kJ/m <sup>2</sup>  | 1.43 ft-lb/in <sup>2</sup>  | ISO 180/4A |
|                            | @Temperature -40.0 °C   | @Temperature -40.0 °F       |            |
|                            | 5.00 kJ/m <sup>2</sup>  | 2.38 ft-lb/in <sup>2</sup>  | ISO 180/4A |
|                            | @Temperature 23.0 °C    | @Temperature 73.4 °F        |            |
| Charpy Impact, Notched     | 0.200 J/cm <sup>2</sup> | 0.952 ft-lb/in <sup>2</sup> | ISO 179    |
|                            | @Temperature -20.0 °C   | @Temperature -4.00 °F       |            |
|                            | 0.300 J/cm <sup>2</sup> | 1.43 ft-lb/in <sup>2</sup>  | ISO 179    |
|                            | @Temperature 23.0 °C    | @Temperature 73.4 °F        |            |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties<br>Deflection Temperature at 0.46 MPa<br>(66 psi) | Metric                       | English                         | Comments          |
|----------------------------------------------------------------------|------------------------------|---------------------------------|-------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi)                       | 76.0 °C                      | 169 °F                          | 120°C/h; ISO 75/1 |
| Vicat Softening Point                                                | 89.0 °C<br>@Load 5.001 kg    | 192 °F<br>@Load 11.03 lb        | 50°C/h; ISO 306   |
|                                                                      | 150 °C<br>@Load 1.00 kg      | 302 °F<br>@Load 2.21 lb         | 50°C/h; ISO 306   |
| Flammability, UL94                                                   | HB<br>@Thickness 1.60 mm     | HB<br>@Thickness 0.0630 in      |                   |
| Glow Wire Test                                                       | 750 °C<br>@Thickness 2.00 mm | 1380 °F<br>@Thickness 0.0787 in | IEC 695-2-1       |

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