

## Polykemi AB POLYfill PPH TS3020 Polypropylene Homopolymer, 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-PPH-TS3020-Polypropylene-Homopolymer-Mineral-Reinforced.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPH-TS3020-Polypropylene-Homopolymer-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  | 0.011 - 0.013 cm/cm                  | 0.011 - 0.013 in/in                  | Across Flow; ISO 2577 |
|                        | 0.011 - 0.013 cm/cm                  | 0.011 - 0.013 in/in                  | With Flow; ISO 2577   |
| Melt Index of Compound | 3.0 g/10 min                         | 3.0 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 | <= 28.0 MPa             | <= 4060 psi                | ISO/R527 |
| Elongation at Yield       | 7.5 %                   | 7.5 %                      | ISO/R527 |
| Flexural Strength         | <= 46.0 MPa             | <= 6670 psi                | ISO 178  |
| Flexural Modulus          | 1.80 GPa                | 261 ksi                    | ISO 178  |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |          |
| Charpy Impact, Notched    | 0.300 J/cm <sup>2</sup> | 1.43 ft-lb/in <sup>2</sup> | ISO 179  |
|                           | @Temperature -20.0 °C   | @Temperature -4.00 °F      |          |
|                           | 0.500 J/cm <sup>2</sup> | 2.38 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) | 115 °C  | 239 °F  | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 63.0 °C | 145 °F  | 120°C/h; ISO 75/1 |
| Vicat Softening Point                       | 84.0 °C | 183 °F  | 50°C/h; ISO 306   |

| Thermal Properties | @Load 5.001 kg<br>Metric | @Load 11.03 lb<br>English | Comments        |
|--------------------|--------------------------|---------------------------|-----------------|
|                    | 145 °C                   | 293 °F                    | 50°C/h; ISO 306 |
|                    | @Load 1.00 kg            | @Load 2.21 lb             |                 |
| 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      |                 |

| Processing Properties | Metric          | English          | Comments               |
|-----------------------|-----------------|------------------|------------------------|
| Melt Temperature      | 205 - 260 °C    | 401 - 500 °F     |                        |
| Mold Temperature      | 40.0 - 80.0 °C  | 104 - 176 °F     |                        |
| Drying Temperature    | 70.0 - 80.0 °C  | 158 - 176 °F     |                        |
| Dry Time              | 2 - 4 hour      | 2 - 4 hour       | in desiccant air dryer |
|                       | 2 - 4 hour      | 2 - 4 hour       | in circulation dryer   |
| Injection Pressure    | 40.0 - 110 MPa  | 5800 - 16000 psi |                        |
| Back Pressure         | 1.00 - 2.00 MPa | 145 - 290 psi    |                        |

| Descriptive Properties | Value | Comments                |
|------------------------|-------|-------------------------|
| Holding Pressure ()    | 20-40 | % of injection pressure |
| Injection Speed ()     | High  |                         |

## Contact Songhan Plastic Technology Co.,Ltd.

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