

## Polykemi AB POLYfill PP HIP16020FCF Polypropylene, Fast Cycle

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-PP-HIP16020FCF-Polypropylene-Fast-Cycle.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PP-HIP16020FCF-Polypropylene-Fast-Cycle.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 | 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   |
|---------------------------|--------------------------------------------------|------------------------------------------------------|------------|
| Hardness, Shore D         | 67<br>@Time 15.0 sec                             | 67<br>@Time 0.00417 hour                             | ASTM D2240 |
| Tensile Strength at Break | <= 30.0 MPa                                      | <= 4350 psi                                          | ISO/R527   |
| Elongation at Break       | 44 %                                             | 44 %                                                 | ISO/R527   |
| Flexural Strength         | <= 46.0 MPa                                      | <= 6670 psi                                          | ISO 178    |
| Flexural Modulus          | 2.60 GPa<br>@Temperature 23.0 °C                 | 377 ksi<br>@Temperature 73.4 °F                      | ISO 178    |
| Charpy Impact, Notched    | 0.200 J/cm <sup>2</sup><br>@Temperature -20.0 °C | 0.952 ft-lb/in <sup>2</sup><br>@Temperature -4.00 °F | ISO 179    |
|                           | 0.400 J/cm <sup>2</sup><br>@Temperature 23.0 °C  | 1.90 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F   | ISO 179    |

| Thermal Properties | Metric                   | English                    | Comments |
|--------------------|--------------------------|----------------------------|----------|
| Flammability, UL94 | HB<br>@Thickness 1.60 mm | HB<br>@Thickness 0.0630 in |          |
|                    | 750 °C                   | 1380 °F                    |          |

| <small>Glow Wire Test</small><br>Thermal Properties | Metric<br>@ Thickness 2.00 mm | English<br>@ Thickness 0.0787 in | IEC 695-2-1<br>Comments |
|-----------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
|-----------------------------------------------------|-------------------------------|----------------------------------|-------------------------|

| 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 circulation dryer   |
|                       | 2 - 4 hour      | 2 - 4 hour       | in desiccant air 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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