

## Polykemi AB POLYfill PPH MGF5040 Polypropylene Homopolymer, Multifiller

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-MGF5040-Polypropylene-Homopolymer-Multifiller.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPH-MGF5040-Polypropylene-Homopolymer-Multifiller.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
Melt Index of Compound	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 50.0 MPa	<= 7250 psi	ISO/R527
Elongation at Break	5.0 %	5.0 %	ISO/R527
Flexural Strength	<= 75.0 MPa	<= 10900 psi	ISO 178
Flexural Modulus	5.00 GPa @Temperature 23.0 °C	725 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.300 J/cm <sup>2</sup> @Temperature 23.0 °C	1.43 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	120°C/h; ISO 75/1
Vicat Softening Point	160 °C @Load 1.00 kg	320 °F @Load 2.21 lb	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Glow Wire Test	750 °C @Thickness 2.00 mm	1380 °F @Thickness 0.0787 in	IEC 695-2-1

Processing Properties	Metric	English	Comments
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<b>Melt Temperature Processing Properties</b>	<b>205 - 260 °C Metric</b>	<b>401 - 500 °F English</b>	<b>Comments</b>
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	

<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>
Holding Pressure ()	20-40	% of injection pressure
Injection Speed ()	High	

## Contact Songhan Plastic Technology Co.,Ltd.

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