

## Polykemi AB POLYfill PPH DNH15025 GF10 Polypropylene Homopolymer, Flame Retardant, Halogen Free, Glass Fibre-Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Glass Fiber Filler , Polypropylene, Flame Retardant

### Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYfill-PPH-DNH15025-GF10-Polypropylene-Homopolymer-Flame-Retardant-Halogen-Free-Glass-Fibre-Reinforced.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPH-DNH15025-GF10-Polypropylene-Homopolymer-Flame-Retardant-Halogen-Free-Glass-Fibre-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Filler Content	10 %	10 %	±2%; Polykemi
Melt Index of Compound	15 g/10 min @Load 2.16 kg, Temperature 230 °C	15 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 29.0 MPa	<= 4210 psi	ISO/R527
Elongation at Break	4.0 %	4.0 %	ISO/R527
Flexural Strength	<= 50.0 MPa	<= 7250 psi	ISO 178
Flexural Modulus	3.10 GPa @Temperature 23.0 °C	450 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.200 J/cm <sup>2</sup> @Temperature -20.0 °C	0.952 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179
	0.250 J/cm <sup>2</sup> @Temperature 23.0 °C	1.19 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)	137 °C	279 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	120°C/h; ISO 75/1
Vicat Softening Point	112 °C @Load 5.001 kg	234 °F @Load 11.03 lb	50°C/h; ISO 306
	156 °C	313 °F	

Thermal Properties	Metric @Load 1.00 kg	English @Load 2.21 lb	50°C/h ISO 306 Comments
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	850 °C @Thickness 1.60 mm	1560 °F @Thickness 0.0630 in	IEC 695-2-1

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 220 °C	356 - 428 °F	
Mold Temperature	20.0 - 50.0 °C	68.0 - 122 °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	0.500 - 1.00 MPa	72.5 - 145 psi	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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