

## Polykemi AB POLYfill PPC K5040 E30 Polypropylene Copolymer, Mineral Reinforced, Elastomer Modified

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , 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-PPC-K5040-E30-Polypropylene-Copolymer-Mineral-Reinforced-Elastomer-Modified.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPC-K5040-E30-Polypropylene-Copolymer-Mineral-Reinforced-Elastomer-Modified.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 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	<= 15.0 MPa	<= 2180 psi	ISO/R527
Elongation at Yield	6.0 %	6.0 %	ISO/R527
Flexural Strength	<= 30.0 MPa	<= 4350 psi	ISO 178
Flexural Modulus	1.50 GPa @Temperature 23.0 °C	218 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.600 J/cm <sup>2</sup> @Temperature -20.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179
	2.70 J/cm <sup>2</sup> @Temperature 23.0 °C	12.8 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)	94.0 °C	201 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	120°C/h; ISO 75/1
Vicat Softening Point	54.0 °C @Load 5.001 kg	129 °F @Load 11.03 lb	50°C/h; ISO 306
	138 °C	280 °F	

Thermal Properties	Metric @Load 1.00 kg	English @Load 2.21 lb	50°C/h·ISO 306 Comments
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
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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China