

## Polykemi AB POLYfill PPC TS6020 E20 Polypropylene Copolymer, Mineral Reinforced, Elastomer Modified

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , 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-PPC-TS6020-E20-Polypropylene-Copolymer-Mineral-Reinforced-Elastomer-Modified.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PPC-TS6020-E20-Polypropylene-Copolymer-Mineral-Reinforced-Elastomer-Modified.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 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	6.0 g/10 min @Load 2.16 kg, Temperature 230 °C	6.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 24.0 MPa	<= 3480 psi	ISO/R527
Elongation at Yield	6.0 %	6.0 %	ISO/R527
Flexural Strength	<= 35.0 MPa	<= 5080 psi	ISO 178
Flexural Modulus	2.00 GPa @Temperature 23.0 °C	290 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.10 J/cm <sup>2</sup> @Temperature 23.0 °C	5.23 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	120°C/h; ISO 75/1
Vicat Softening Point	60.0 °C @Load 5.001 kg	140 °F @Load 11.03 lb	50°C/h; ISO 306

Thermal Properties	140 °C Metric	284 °F English	Comments
	@Load 1.00 kg	@Load 2.21 lb	50 L/76, ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 °C	410 - 464 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °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 - 70.0 MPa	5800 - 10200 psi	
Back Pressure	1.00 - 1.50 MPa	145 - 218 psi	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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