

## Polykemi AB POLYfill PP EIP12030F Polypropylene/EPDM, Mineral Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYfill-PP-EIP12030F-PolypropyleneEPDM-Mineral-Reinforced.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYfill-PP-EIP12030F-PolypropyleneEPDM-Mineral-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
Filler Content	30 %	30 %	±2%; Polykemi
Linear Mold Shrinkage	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	With Flow; ISO 2577
	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	Across Flow; ISO 2577
Melt Index of Compound	12 g/10 min	12 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 26.0 MPa	<= 3770 psi	ISO/R527
Elongation at Break	16 %	16 %	ISO/R527
Elongation at Yield	5.0 %	5.0 %	ISO/R527
Flexural Strength	<= 45.0 MPa	<= 6530 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.40 J/cm <sup>2</sup>	11.4 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.10 J/cm <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 - 75.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	30.6 - 41.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Polykemi
Deflection Temperature at 0.46 MPa (66 psi)	116 $^{\circ}\text{C}$	241 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$ ; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	64.0 $^{\circ}\text{C}$	147 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$ ; ISO 75/1
Vicat Softening Point	75.0 $^{\circ}\text{C}$	167 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$ ; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	145 $^{\circ}\text{C}$	293 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$ ; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	
Glow Wire Test	750 $^{\circ}\text{C}$	1380 $^{\circ}\text{F}$	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 250 $^{\circ}\text{C}$	446 - 482 $^{\circ}\text{F}$	
Mold Temperature	30.0 - 60.0 $^{\circ}\text{C}$	86.0 - 140 $^{\circ}\text{F}$	
Drying Temperature	70.0 - 80.0 $^{\circ}\text{C}$	158 - 176 $^{\circ}\text{F}$	
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	0.500 - 1.50 MPa	72.5 - 218 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-40	% of injection pressure
Injection Speed ()	High	
Scratch Resistance, 10N (dL)	6.9	10N Fine Structure; ISO 1518/D65

## Contact Songhan Plastic Technology Co.,Ltd.

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