

**Polykemi AB POLYshine PBT D311 GF30 PBT, Glass-Fiber Reinforced, Modified**

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

**Material Notes:**

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYshine-PBT-D311-GF30-PBT-Glass-Fiber-Reinforced-Modified.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYshine-PBT-D311-GF30-PBT-Glass-Fiber-Reinforced-Modified.php)

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ISO 1183
Filler Content	30 %	30 %	±2%; Polykemi
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 145 MPa	<= 21000 psi	ISO/R527
Elongation at Break	3.0 %	3.0 %	ISO/R527
Flexural Strength	<= 180 MPa	<= 26100 psi	ISO 178
Flexural Modulus	7.80 GPa @Temperature 23.0 °C	1130 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.700 J/cm <sup>2</sup> @Temperature -20.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179
	0.800 J/cm <sup>2</sup> @Temperature 23.0 °C	3.81 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)	220 °C	428 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	120°C/h; ISO 75/1
Vicat Softening Point	215 °C @Load 5.001 kg	419 °F @Load 11.03 lb	50°C/h; ISO 306

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