

Polykemi AB POLYshine PBT D211 PBT, Modified

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYshine-PBT-D211-PBT-Modified.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.018 - 0.020 cm/cm	0.018 - 0.020 in/in	With Flow; ISO 2577
	0.018 - 0.020 cm/cm	0.018 - 0.020 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 51.0 MPa	<= 7400 psi	ISO/R527
Elongation at Yield	8.0 %	8.0 %	ISO/R527
Flexural Strength	<= 78.0 MPa	<= 11300 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.40 GPa	348 ksi	ISO 178
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact Unnotched	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa	65.0 °C	149 °F	

(264 psi) Thermal Properties	Metric	English	120°C/h; ISO 75/1 Comments
Vicat Softening Point	175 °C	347 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	212 °C	414 °F	50°C/h; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	750 °C	1380 °F	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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