

Polykemi AB POLYlux 3809S PC/PBT-Blend

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , 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-POLYlux-3809S-PCPBT-Blend.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	With Flow; ISO 2577
	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	ASTM D2240
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	<= 50.0 MPa	<= 7250 psi	ISO/R527
Elongation at Yield	6.0 %	6.0 %	ISO/R527
Flexural Strength	<= 70.0 MPa	<= 10200 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	4.50 J/cm ²	21.4 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)	90.0 °C	194 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	120°C/h; ISO 75/1
Vicat Softening Point	108 °C	226 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	132 °C	270 °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

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