

Polykemi AB POLYelast TPE R44 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYelast-TPE-R44-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ISO 1183
Filler Content	5 %	5 %	±2%; Polykemi
Linear Mold Shrinkage	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	With Flow; ISO 2577
	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	Across Flow; ISO 2577
Melt Index of Compound	8.0 g/10 min	8.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	Polykemi
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	<= 15.0 MPa	<= 2180 psi	ISO/R527
Flexural Strength	<= 22.0 MPa	<= 3190 psi	ISO 178
Flexural Modulus	0.700 GPa	102 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.80 J/cm ²	13.3 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)	87.0 °C	189 °F	120°C/h; ISO 75/1
Vicat Softening Point	135 °C	275 °F	
	@Load 1.00 kg	@Load 2.21 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	
Mold Temperature	20.0 - 60.0 °C	68.0 - 140 °F	
Injection Pressure	90.0 - 110 MPa	13100 - 16000 psi	
Back Pressure	0.200 - 0.500 MPa	29.0 - 72.5 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-40	% of injection pressure
Injection Speed ()	High	

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