

Polykemi AB POLYelast TPE ED80 D40 UV 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-ED80-D40-UV-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	With Flow; ISO 2577
	0.018 - 0.022 cm/cm	0.018 - 0.022 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	40	40	Polykemi
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	<= 10.0 MPa	<= 1450 psi	ISO/R527
Elongation at Yield	9.0 %	9.0 %	ISO/R527
Flexural Modulus	0.450 GPa	65.3 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.70 J/cm ²	12.8 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)	50.0 °C	122 °F	120°C/h; ISO 75/1
Vicat Softening Point	100 °C	212 °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 - 40.0 °C	68.0 - 104 °F	

Processing Properties	Metric 1.00 MPa	English 45 psi	Comments
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Descriptive Properties	Value	Comments
Holding Pressure ()	20-40	% of injection pressure
Injection Pressure	High	
Injection Speed ()	High	

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