

Polykemi AB POLYelast TPE Z500 Thermoplastic Elastomer, SEBS-based

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-Z500-Thermoplastic-Elastomer-SEBS-based.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.017 - 0.024 cm/cm	0.017 - 0.024 in/in	With Flow; ISO 2577
	0.017 - 0.024 cm/cm	0.017 - 0.024 in/in	Across Flow; ISO 2577
Melt Index of Compound	7.0 g/10 min	7.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	Polykemi
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	<= 6.50 MPa	<= 943 psi	ISO/R527
Elongation at Break	750 %	750 %	ISO/R527
100% Modulus	0.00180 GPa	0.261 ksi	ISO/R527
300% Modulus	0.00260 GPa	0.377 ksi	ISO/R527
Tear Strength	19.0 kN/m	108 pli	D624
Compression Set	20 %	20 %	DIN 53517
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
	38 %	38 %	DIN 53517
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 220 °C	356 - 428 °F	
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	
Back Pressure			

Processing Properties	0.500 - 1.50 MPa Metric	72.9 - 218 psi English	Comments
Descriptive Properties			
Holding Pressure ()	Low		% of injection pressure
Injection Pressure	Low		
Injection Speed ()	High		

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