

Polykemi AB POLYelast TPE Z557 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-Z557-Thermoplastic-Elastomer-SEBS-based.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.014 - 0.020 cm/cm	0.014 - 0.020 in/in	Across Flow; ISO 2577
	0.014 - 0.020 cm/cm	0.014 - 0.020 in/in	With Flow; ISO 2577
Melt Index of Compound	1.0 g/10 min	1.0 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	55	55	Polykemi
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	<= 3.50 MPa	<= 508 psi	ISO/R527
Elongation at Break	520 %	520 %	ISO/R527
100% Modulus	0.00140 GPa	0.203 ksi	ISO/R527
300% Modulus	0.00220 GPa	0.319 ksi	ISO/R527
Compression Set	27 %	27 %	DIN 53517
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
	53 %	53 %	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	0.500 - 1.50 MPa	72.5 - 218 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	Low	% of injection pressure
Injection Pressure	Low	
Injection Speed ()	High	

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