

Polykemi AB POLYelast TPE EC88R Thermoplastic Elastomer, PP/EPDM

Category : Polymer , Thermoplastic , Elastomer, TPE , Polypropylene (PP)

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYelast-TPE-EC88R-Thermoplastic-Elastomer-PPEPDM.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	With Flow; ISO 2577
	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	Across Flow; ISO 2577
Melt Index of Compound	3.0 g/10 min	3.0 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 A	88	88	Polykemi
	@Time 15.0 sec	@Time 0.00417 hour	
Hardness, Shore D	30	30	Polykemi
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	<= 15.0 MPa	<= 2180 psi	ISO/R527
Elongation at Break	>= 55 %	>= 55 %	ISO/R527
Flexural Modulus	0.450 GPa	65.3 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	56.0 °C	133 °F	120°C/h; ISO 75/1

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	200 - 230 °C Metric	392 - 446 °F English	Comments
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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