

Polykemi AB POLYelast TPE R44 T10 Thermoplastic Elastomer, Mineral Reinforced

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-T10-Thermoplastic-Elastomer-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ISO 1183
Filler Content	10 %	10 %	±2%; Polykemi
Linear Mold Shrinkage	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	Across Flow; ISO 2577
	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	With Flow; ISO 2577
Melt Index of Compound	12 g/10 min	12 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	54	54	Polykemi
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	<= 19.0 MPa	<= 2760 psi	ISO/R527
Elongation at Yield	8.0 %	8.0 %	ISO/R527
Flexural Strength	<= 25.0 MPa	<= 3630 psi	ISO 178
Flexural Modulus	0.750 GPa	109 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	NB	NB	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.80 J/cm ²	13.3 ft-lb/in ²	ISO 179

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	120°C/h; ISO 75/1
Vicat Softening Point	132 °C @Load 1.00 kg	270 °F @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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China