

Polykemi AB POLYelast TPE 10012 R3 Thermoplastic Elastomer, PP/Elastomer, Mineral Reinforced

Category : Polymer , Thermoplastic , Elastomer, TPE , Polypropylene (PP) , Polypropylene with 10% Talc Filler

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYelast-TPE-10012-R3-Thermoplastic-Elastomer-PPElastomer-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	ISO 1183
Filler Content	12 %	12 %	±2%; Polykemi
Linear Mold Shrinkage	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	With Flow; ISO 2577
	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	Across Flow; ISO 2577
Melt Index of Compound	10 g/10 min	10 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 18.0 MPa	<= 2610 psi	ISO/R527
Elongation at Break	200 %	200 %	ISO/R527
Elongation at Yield	10 %	10 %	ISO/R527
Flexural Strength	<= 25.0 MPa	<= 3630 psi	ISO 178
Flexural Modulus	1.10 GPa	160 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	ISO 179
	@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	2.80 J/cm ²	13.3 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 80.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	33.3 - 44.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Polykemi
Deflection Temperature at 0.46 MPa (66 psi)	95.0 $^{\circ}\text{C}$	203 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	45.0 $^{\circ}\text{C}$	113 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$; ISO 75/1
Vicat Softening Point	50.0 $^{\circ}\text{C}$	122 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	124 $^{\circ}\text{C}$	255 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 250 $^{\circ}\text{C}$	446 - 482 $^{\circ}\text{F}$	
Mold Temperature	40.0 - 60.0 $^{\circ}\text{C}$	104 - 140 $^{\circ}\text{F}$	
Injection Pressure	40.0 - 80.0 MPa	5800 - 11600 psi	

Descriptive Properties	Value	Comments
Holding Pressure ()	20-40	% of injection pressure
Injection Speed ()	High	

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