

Polykemi AB POLYelast TPE EC12 D55 Thermoplastic Elastomer

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-EC12-D55-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ISO 1183
Melt Index of Compound	1.0 g/10 min @Load 2.16 kg, Temperature 230 °C	1.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 @Time 15.0 sec	55 @Time 0.00417 hour	Polykemi
Tensile Strength at Break	<= 19.0 MPa	<= 2760 psi	ISO/R527
Elongation at Break	520 %	520 %	ISO/R527
Elongation at Yield	11 %	11 %	ISO/R527
Flexural Strength	<= 27.0 MPa	<= 3920 psi	ISO 178
Flexural Modulus	1.15 GPa @Temperature 23.0 °C	167 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	2.50 J/cm ² @Temperature -20.0 °C	11.9 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	3.40 J/cm ² @Temperature 23.0 °C	16.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	83.0 °C	181 °F	120°C/h; ISO 75/1
Vicat Softening Point	130 °C @Load 1.00 kg	266 °F @Load 2.21 lb	

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

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	

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