

BASF Elastollan 685 AU TPUR

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Description: Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties and wear resistance, good damping characteristics and a high resilience performance. Typical Applications: Decorative parts and damping elements for the sport-shoe industry, ski tips, tubes and films. Note: Quoted results are from measurements on injection molded test platens, post tempered for 20 hours at 100°C. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Elastollan-685-AU-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ISO 868
Tensile Strength	40.0 MPa	5800 psi	after storage in water at 80°C for 42 days; ISO 37
	50.0 MPa	7250 psi	ISO 37
	2.80 MPa @Strain 20.0 %	406 psi @Strain 20.0 %	ISO 37
Elongation at Break	5.50 MPa @Strain 100 %	798 psi @Strain 100 %	ISO 37
	600 %	600 %	ISO 37
Charpy Impact, Notched	650 %	650 %	after storage in water at 80°C for 42 days; ISO 37
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	DIN EN ISO 179
Tear Strength	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	DIN EN ISO 179
	75.0 kN/m	428 pli	DIN ISO 34-1/Bb
Abrasion	40	40	[mm³; ISO 4649
Compression Set	25 % @Temperature 23.0 °C	25 % @Temperature 73.4 °F	ISO 815
	45 %	45 %	

Mechanical Properties	Metric @ Temperature 70.0 °C	English @ Temperature 158 °F	ISO 815 Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	175 - 220 °C	347 - 428 °F	Extrusion
	175 - 230 °C	347 - 446 °F	Injection molding
Mold Temperature	20.0 - 70.0 °C	68.0 - 158 °F	

Descriptive Properties	Value	Comments
Color	Transparent	
Commercial Status	North America	
Primary Processing Technique	Injection molding and Extrusion	

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