

BASF Elastollan 695 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-695-AU-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 686
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
	8.00 MPa	1160 psi	ISO 37
	@Strain 20.0 %	@Strain 20.0 %	
	14.0 MPa	2030 psi	ISO 37
Elongation at Break	@Strain 100 %	@Strain 100 %	
	400 %	400 %	ISO 37
Charpy Impact, Notched	450 %	450 %	after storage in water at 80°C for 42 days; ISO 37
	0.700 J/cm ²	3.33 ft-lb/in ²	DIN EN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tear Strength	NB	NB	DIN EN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Abrasion	120 kN/m	685 pli	DIN ISO 34-1/Bb
Compression Set	40	40	[mm³; ISO 4649
	30 %	30 %	ISO 815
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	40 %	40 %	

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 - 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	

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