

BASF Elastollan 690 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-690-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	90	90	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
	4.00 MPa	580 psi	ISO 37
	@Strain 20.0 %	@Strain 20.0 %	
Elongation at Break	7.00 MPa	1020 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
Charpy Impact, Notched	550 %	550 %	ISO 37
	600 %	600 %	after storage in water at 80°C for 42 days; ISO 37
Charpy Impact, Notched	NB	NB	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	85.0 kN/m	485 pli	DIN ISO 34-1/Bb
Compression Set	40	40	[mm³; ISO 4649
	25 %	25 %	ISO 815
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	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	

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