

BASF Elastollan S 90 A 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: Shoe-soles, top pieces, tubes, technical parts e.g. castor tyres. 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-S-90-A-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93	93	ISO 868
Hardness, Shore D	41	41	ISO 686
Tensile Strength	55.0 MPa	7980 psi	ISO 37
	5.00 MPa	725 psi	ISO 37
	@Strain 20.0 %	@Strain 20.0 %	
	9.00 MPa	1310 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	13.0 MPa	1890 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	600 %	600 %	ISO 37
Charpy Impact, Notched	NB	NB	DIN EN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	DIN EN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	95.0 kN/m	542 pli	DIN ISO 34-1/Bb
Abrasion	30	30	[mm³; ISO 4649
Compression Set	25 %	25 %	ISO 815
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	45 %	45 %	ISO 815

Mechanical Properties	@Temperature 70.0 °C Metric	@Temperature 158 °F English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	175 - 220 °C	347 - 428 °F	Extrusion
	175 - 240 °C	347 - 464 °F	Injection molding
Mold Temperature	20.0 - 70.0 °C	68.0 - 158 °F	

Descriptive Properties	Value	Comments
Commercial Status	North America	
Primary Processing Technique	Injection molding, Extrusion and Blow molding	

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