

BASF Elastollan B 80 A TPUR

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

Material Notes:

Description: Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, high tensile strength, good damping and resilience performance and superior low temperature flexibility. Typical Applications: Sport-shoe soles and accessories, ski-boot shells, technical moldings, e.g. seals, castor tyres and tubing. 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-B-80-A-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	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
	2.00 MPa	290 psi	ISO 37
	@Strain 20.0 %	@Strain 20.0 %	
	5.00 MPa	725 psi	ISO 37
@Strain 100 %	@Strain 100 %		
Elongation at Break	14.5 MPa	2100 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Charpy Impact, Notched	600 %	600 %	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
	35	35	[mm³; ISO 4649
	20 %	20 %	

Compression Set Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 815 Comments
	30 %	30 %	ISO 815
	@Temperature 70.0 °C	@Temperature 158 °F	

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
Commercial Status	North America	
Primary Processing Technique	Injection molding	

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