

BASF Elastollan SP 852 TPUR

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

Material Notes:

Description: Thermoplastic Polyurethane Elastomers with excellent mechanical properties, outstanding wear resistance, high tear and tensile strength, good damping characteristics and a high resilience performance. Typical Applications: Polyester based easy flow. 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-SP-852-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 A	81	81	ISO 868
Tensile Strength	2.30 MPa	334 psi	20; ISO 37
	5.00 MPa	725 psi	100; ISO 37
	8.50 MPa	1230 psi	300; ISO 37
	50.0 MPa	7250 psi	ISO 37
Elongation at Break	680 %	680 %	ISO 37
Charpy Impact, Notched	NB	NB	DIN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	DIN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	70.0 kN/m	399 pli	DIN ISO 34-1/Bb
Abrasion	30	30	[mm³]; ISO 4649
Compression Set	23 %	23 %	DIN EN ISO 815
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	42 %	42 %	DIN EN ISO 815
	@Temperature 70.0 °C	@Temperature 158 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 220 °C	347 - 428 °F	Extrusion

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

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

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