

BASF Elastollan C 59 D TPUR

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

Material Notes:

Description: Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties and chemical resistance, outstanding wear resistance, high tear and tensile strength, good damping characteristics and a high resilience performance. Typical Applications: Spiral tubing, pneumatic tubing, round and v-beltting, technical moldings, e.g. bushes, dust caps, seals, blow molding bellows, and mining screens. 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-C-59-D-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	57	57	ISO 686
Tensile Strength	43.0 MPa	6240 psi	after storage in water at 80°C for 42 days; ISO 37
	50.0 MPa	7250 psi	ISO 37
	12.0 MPa	1740 psi	ISO 37
	@Strain 20.0 %	@Strain 20.0 %	
	17.0 MPa	2470 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	30.0 MPa	4350 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	480 %	480 %	after storage in water at 80°C for 42 days; ISO 37
	500 %	500 %	ISO 37
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	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	160 kN/m	913 pli	DIN ISO 34-1/Bb
Abrasion	20	20	[mm³] ISO 4649

Mechanical Properties	Metric	English	Comments
Compression Set	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 815
	50 %	50 %	ISO 815
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Processing Temperature	170 - 240 °C	338 - 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	

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