

BASF Elastollan C 70 A HPM 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-70-A-HPM-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ISO 868
Tensile Strength	30.0 MPa	4350 psi	after storage in water at 80°C for 42 days; ISO 37
	45.0 MPa	6530 psi	ISO 37
	1.50 MPa	218 psi	ISO 37
	@Strain 20.0 %	@Strain 20.0 %	
	2.50 MPa	363 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	4.50 MPa	653 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	750 %	750 %	ISO 37
	850 %	850 %	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	
	NB	NB	DIN EN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tear Strength	40.0 kN/m	228 pli	DIN ISO 34-1/Bb
Abrasion	35	35	[mm³ ISO 4649

Mechanical Properties	Metric	English	Comments
Compression Set	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 815
	25 %	25 %	ISO 815
	@Temperature 70.0 °C	@Temperature 158 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	160 - 220 °C	320 - 428 °F	Extrusion
	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, Extrusion and Blow molding	

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