

BASF Elastollan 2180 A TPUR

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade , Thermoplastic Polyurethane (TPUR), Polyether 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/Polyether based for fibers/films. 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-2180-A-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	ISO 868
Tensile Strength	1.00 MPa	145 psi	20; ISO 37
	4.50 MPa	653 psi	100; ISO 37
	10.0 MPa	1450 psi	300; ISO 37
	45.0 MPa	6530 psi	ISO 37
Elongation at Break	450 %	450 %	ISO 37
Charpy Impact, Notched	NB	NB	DIN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tear Strength	NB	NB	DIN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Abrasion	45	45	[mm³; ISO 4649
Compression Set	14 %	14 %	DIN EN ISO 815
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compression Set	23 %	23 %	DIN EN ISO 815
	@Temperature 70.0 °C	@Temperature 158 °F	

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	175 - 220 °C Metric	347 - 428 °F English	Extrusion Comments
Mold Temperature	20.0 - 70.0 °C	68.0 - 158 °F	

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China