

## BASF Elastollan 670 AWHU TPUR

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

### Material Notes:

Description: Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties and wear resistance, good damping characteristics and a high resilience performance. Typical Applications: Decorative parts and damping elements for the sport-shoe industry, ski tips, tubes and 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-670-AWHU-TPUR.php](http://www.lookpolymers.com/polymer_BASF-Elastollan-670-AWHU-TPUR.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	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
	35.0 MPa	5080 psi	ISO 37
	1.00 MPa @Strain 20.0 %	145 psi @Strain 20.0 %	ISO 37
Elongation at Break	3.00 MPa @Strain 100 %	435 psi @Strain 100 %	ISO 37
	650 %	650 %	ISO 37
Charpy Impact, Notched	700 %	700 %	after storage in water at 80°C for 42 days; ISO 37
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	DIN EN ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	DIN EN ISO 179
Tear Strength	40.0 kN/m	228 pli	DIN ISO 34-1/Bb
Abrasion	40	40	[mm<sup>3</sup>; ISO 4649
Compression Set	25 % @Temperature 23.0 °C	25 % @Temperature 73.4 °F	ISO 815
	40 %	40 %	

Mechanical Properties	Metric	English	ISO 815 Comments
	@ 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
Color	Transparent	
Commercial Status	North America	
Primary Processing Technique	Injection molding	

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