

## BASF Elastollan R 1001 10% Glass Filled TPUR

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

### Material Notes:

Description: Thermoplastic Polyester Polyurethane Elastomers with exceptional properties, very high impact resistance, high modulus with at the same time elasticity, low coefficient of thermal expansion comparable with steel and aluminum, low mold shrinkage and ease of painting. Typical Applications: Automotive body and rocker panels, underbody sealants, technical moldings e.g. plugs and ski tips. 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-R-1001-10-Glass-Filled-TPUR.php](http://www.lookpolymers.com/polymer_BASF-Elastollan-R-1001-10-Glass-Filled-TPUR.php)

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ISO 686
Tensile Strength	30.0 MPa	4350 psi	50 mm/min; ISO 37
Elongation at Break	65 %	65 %	50 mm/min; ISO 37
Charpy Impact Unnotched	16.0 J/cm <sup>2</sup>	76.1 ft-lb/in <sup>2</sup>	DIN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	NB	NB	DIN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	DIN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	DIN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 µm/m-°C	15.6 µin/in-°F	53752-A
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	DIN EN ISO 75-2/Be
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	DIN EN ISO 75-2/Ae

Processing Properties	Metric	English	Comments
Processing Temperature	225 - 245 °C	437 - 473 °F	
Mold Temperature	50.0 - 70.0 °C	122 - 158 °F	

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	North America	
Primary Processing Technique	Injection molding	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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