

BASF Elastollan R 2001 20% 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-2001-20-Glass-Filled-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ISO 686
Tensile Strength	60.0 MPa	8700 psi	50 mm/min; ISO 37
Elongation at Break	30 %	30 %	50 mm/min; ISO 37
Modulus of Elasticity	1.80 GPa	261 ksi	DIN EN ISO 527
Charpy Impact Unnotched	11.0 J/cm ²	52.3 ft-lb/in ²	DIN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	18.0 J/cm ²	85.7 ft-lb/in ²	DIN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	DIN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	DIN ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 µm/m-°C	12.2 µin/in-°F	53752-A
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	DIN EN ISO 75-2/Be
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	120 °C Metric	248 °F English	DIN EN ISO 75-2/Ae Comments
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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	Black	
Commercial Status	North America	
Primary Processing Technique	Injection molding	

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