

BASF Elastollan R 3000 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-3000-20-Glass-Filled-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73	73	ISO 686
Tensile Strength	80.0 MPa	11600 psi	50 mm/min; ISO 37
	30.0 MPa	4350 psi	50 mm/min; ISO 527-2
	@Strain 2.00 %, Temperature 60.0 °C	@Strain 2.00 %, Temperature 140 °F	
	35.0 MPa	5080 psi	50 mm/min; ISO 527-2
	@Strain 2.00 %, Temperature 40.0 °C	@Strain 2.00 %, Temperature 104 °F	
	45.0 MPa	6530 psi	50 mm/min; ISO 527-2
	@Strain 2.00 %, Temperature 23.0 °C	@Strain 2.00 %, Temperature 73.4 °F	
	50.0 MPa	7250 psi	50 mm/min; ISO 527-2
	@Strain 8.00 %, Temperature 60.0 °C	@Strain 8.00 %, Temperature 140 °F	
	50.0 MPa	7250 psi	50 mm/min; ISO 527-2
	@Strain 14.0 %, Temperature 60.0 °C	@Strain 14.0 %, Temperature 140 °F	
	60.0 MPa	8700 psi	50 mm/min; ISO 527-2
	@Strain 8.00 %, Temperature 40.0 °C	@Strain 8.00 %, Temperature 104 °F	
	62.0 MPa	8990 psi	50 mm/min; ISO 527-2
	@Strain 14.0 %,	@Strain 14.0 %,	

Mechanical Properties	Metric	English	Comments
	65.0 MPa	9430 psi	
	@Strain 2.00 %, Temperature 0.000 °C	@Strain 2.00 %, Temperature 32.0 °F	50 mm/min; ISO 527-2
	78.0 MPa	11300 psi	
	@Strain 12.0 %, Temperature 23.0 °C	@Strain 12.0 %, Temperature 73.4 °F	50 mm/min; ISO 527-2
	78.0 MPa	11300 psi	
	@Strain 8.00 %, Temperature 23.0 °C	@Strain 8.00 %, Temperature 73.4 °F	50 mm/min; ISO 527-2
	95.0 MPa	13800 psi	
	@Strain 4.00 %, Temperature 0.000 °C	@Strain 4.00 %, Temperature 32.0 °F	50 mm/min; ISO 527-2
	102 MPa	14800 psi	
	@Strain 8.00 %, Temperature 0.000 °C	@Strain 8.00 %, Temperature 32.0 °F	50 mm/min; ISO 527-2
Elongation at Break	10 %	10 %	50 mm/min; ISO 37
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	DIN ISO 179
	12.0 J/cm ²	57.1 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	DIN ISO 179
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	DIN ISO 179
	3.00 J/cm ²	14.3 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	DIN ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 µm/m-°C	11.1 µin/in-°F	
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	53752-A
Deflection Temperature at 0.46 MPa (66 psi)	155 °C	311 °F	DIN EN ISO 75-2/Be
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	DIN EN ISO 75-2/Ae
Vicat Softening Point	132 °C	270 °F	B/50; ISO 306
Flammability, UL94	HB	HB	

Thermal Properties	Metric	English	Comments
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	

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