BASF Elastollan R 2000 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°CInformation provided by BASF

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Elastollan-R-2000-20-Glass-Filled-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ISO 686
Tensile Strength	65.0 MPa	9430 psi	50 mm/min; ISO 37
	35.0 MPa @Strain 5.00 %, Temperature 60.0 °C	5080 psi @Strain 5.00 %, Temperature 140 °F	50 mm/min; ISO 527-2
	40.0 MPa @Strain 5.00 %, Temperature 40.0 °C	5800 psi @Strain 5.00 %, Temperature 104 °F	50 mm/min; ISO 527-2
	42.0 MPa @Strain 10.0 %, Temperature 60.0 °C	6090 psi @Strain 10.0 %, Temperature 140 °F	50 mm/min; ISO 527-2
	42.0 MPa @Strain 20.0 %, Temperature 60.0 °C	6090 psi @Strain 20.0 %, Temperature 140 °F	50 mm/min; ISO 527-2
	50.0 MPa @Strain 10.0 %, Temperature 40.0 °C	7250 psi @Strain 10.0 %, Temperature 104 °F	50 mm/min; ISO 527-2
	54.0 MPa @Strain 20.0 %, Temperature 40.0 °C	7830 psi @Strain 20.0 %, Temperature 104 °F	50 mm/min; ISO 527-2
	55.0 MPa @Strain 5.00 %,	7980 psi @Strain 5.00 %,	50 mm/min; ISO 527-2

Mechanical Properties	Metric Temperature 23.0 °C	English Temperature 73.4 °F	Comments
	69.0 MPa @Strain 10.0 %, Temperature 23.0 °C	10000 psi @Strain 10.0 %, Temperature 73.4 °F	50 mm/min; ISO 527-2
	69.0 MPa @Strain 20.0 %, Temperature 23.0 °C	10000 psi @Strain 20.0 %, Temperature 73.4 °F	50 mm/min; ISO 527-2
	80.0 MPa @Strain 5.00 %, Temperature 0.000 °C	11600 psi @Strain 5.00 %, Temperature 32.0 °F	50 mm/min; ISO 527-2
	85.0 MPa @Strain 15.0 %, Temperature 0.000 °C	12300 psi @Strain 15.0 %, Temperature 32.0 °F	50 mm/min; ISO 527-2
	88.0 MPa @Strain 10.0 %, Temperature 0.000 °C	12800 psi @Strain 10.0 %, Temperature 32.0 °F	50 mm/min; ISO 527-2
Elongation at Break	25 %	25 %	50 mm/min; ISO 37
Charpy Impact Unnotched	11.0 J/cm² @Temperature -30.0 °C	52.3 ft-lb/in² @Temperature -22.0 °F	DIN ISO 179
	14.0 J/cm² @Temperature 23.0 °C	66.6 ft-lb/in² @Temperature 73.4 °F	DIN ISO 179
Charpy Impact, Notched	1.00 J/cm² @Temperature -30.0 °C	4.76 ft-lb/in² @Temperature -22.0 °F	DIN ISO 179
	5.00 J/cm² @Temperature 23.0 °C	23.8 ft-lb/in² @Temperature 73.4 °F	DIN ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 µm/m-°C @Temperature 23.0 - 80.0 °C	11.1 µin/in-°F @Temperature 73.4 - 176 °F	53752-A
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	DIN EN ISO 75-2/Be
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	DIN EN ISO 75-2/Ae
Vicat Softening Point	92.0 °C	198 °F	B/50; ISO 306

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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