

BASF Elastollan R 2005/1 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-20051-20-Glass-Filled-TPUR.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183-1-A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ISO 686
Tensile Strength	65.0 MPa	9430 psi	50 mm/min; ISO 37
Elongation at Break	20 %	20 %	50 mm/min; ISO 37
Modulus of Elasticity	1.90 GPa	276 ksi	DIN EN ISO 527
Charpy Impact Unnotched	10.0 J/cm ²	47.6 ft-lb/in ²	DIN ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	14.0 J/cm ²	66.6 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	
Charpy Impact, Notched	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	20.0 µm/m-°C	11.1 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
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Processing Temperature	225 - 245 °C	437 - 473 °F	
Mold Temperature	50.0 - 70.0 °C	122 - 158 °F	

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

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