

GRECO ISOTHANE 3080AF Polyether TPU Resin

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyether Grade

Material Notes:

ISOTHANE 3000F Series products are polyether based thermoplastic polyurethanes. They exhibit excellent hydrolytic resistance, fungus resistance, and low temperature performance properties. These products can be injection molded, blow molded, and extruded. In compliance with FDA CFR 177.105, 177.1680, and 177.2600 Information provided by Greater Eastern Resins Industrial Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GRECO-ISOTHANE-3080AF-PolyetherTPUResin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Tensile Strength	33.0 MPa	4790 psi	ASTM D412
Tensile Strength, Yield	3.80 MPa	551 psi	ASTM D412
	@Strain 50.0 %	@Strain 50.0 %	
	5.20 MPa	754 psi	
	@Strain 100 %	@Strain 100 %	ASTM D412
	11.0 MPa	1600 psi	
	@Strain 300 %	@Strain 300 %	
Elongation at Break	620 %	620 %	ASTM D412
Tear Strength	550 kN/m	3140 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	ASTM D1044(Taber) H-22
Compression Set	30 %	30 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	35 %	35 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395

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