

GRECO ISOTHANE 5080A Polyether TPU Resin

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

Material Notes:

ISOTHANE 5000 Series products are polyether based thermoplastic polyurethanes. They exhibit excellent bio-compatibility, hydrolytic resistance, fungus resistance, and low temperature performance properties. These products can be injection molded, blow molded, and extruded. These are used for biomedical and drug administration applications. Information provided by Greater Eastern Resins Industrial Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GRECO-ISOTHANE-5080A-PolyetherTPUResin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Tensile Strength	37.0 MPa	5370 psi	ASTM D412
Tensile Strength, Yield	3.60 MPa	522 psi	ASTM D412
	@Strain 50.0 %	@Strain 50.0 %	
	5.40 MPa	783 psi	
	@Strain 100 %	@Strain 100 %	ASTM D412
	10.0 MPa	1450 psi	
	@Strain 300 %	@Strain 300 %	
Elongation at Break	620 %	620 %	ASTM D412
Tear Strength	450 kN/m	2570 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	ASTM D1044(Taber) H-22
Compression Set	25 %	25 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
	30 %	30 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395

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