

## GRECO ISOTHANE 5085A 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-5085A-PolyetherTPUResin.php](http://www.lookpolymers.com/polymer_GRECO-ISOTHANE-5085A-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	85	85	ASTM D2240
Tensile Strength	39.0 MPa	5660 psi	ASTM D412
Tensile Strength, Yield	3.90 MPa @Strain 50.0 %	566 psi @Strain 50.0 %	ASTM D412
	5.90 MPa @Strain 100 %	856 psi @Strain 100 %	ASTM D412
	12.0 MPa @Strain 300 %	1740 psi @Strain 300 %	ASTM D412
Elongation at Break	540 %	540 %	ASTM D412
Tear Strength	500 kN/m	2850 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	ASTM D1044(Taber) H-22
Compression Set	30 % @Temperature 23.0 Â°C, Time 79200 sec	30 % @Temperature 73.4 Â°F, Time 22.0 hour	ASTM D395
	35 % @Temperature 70.0 Â°C, Time 79200 sec	35 % @Temperature 158 Â°F, Time 22.0 hour	ASTM D395

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