

## GRECO ISOTHANE 3090A Polyether TPU Resin

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

**Material Notes:**

ISOTHANE 3000 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. Information provided by Greater Eastern Resins Industrial Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_GRECO-ISOTHANE-3090A-PolyetherTPUResin.php](http://www.lookpolymers.com/polymer_GRECO-ISOTHANE-3090A-PolyetherTPUResin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Tensile Strength	39.0 MPa	5660 psi	ASTM D412
Tensile Strength, Yield	6.20 MPa @Strain 50.0 %	899 psi @Strain 50.0 %	ASTM D412
	10.0 MPa @Strain 100 %	1450 psi @Strain 100 %	ASTM D412
	21.0 MPa @Strain 300 %	3050 psi @Strain 300 %	ASTM D412
Elongation at Break	480 %	480 %	ASTM D412
Tear Strength	750 kN/m	4280 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	15	15	ASTM D1044(Taber) H-22
Compression Set	25 % @Temperature 23.0 Â°C, Time 79200 sec	25 % @Temperature 73.4 Â°F, Time 22.0 hour	ASTM D395
	30 % @Temperature 70.0 Â°C, Time 79200 sec	30 % @Temperature 158 Â°F, Time 22.0 hour	ASTM D395

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