

## GRECO ISOTHANE 3055D 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-3055D-PolyetherTPUResin.php](http://www.lookpolymers.com/polymer_GRECO-ISOTHANE-3055D-PolyetherTPUResin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength	44.0 MPa	6380 psi	ASTM D412
Tensile Strength, Yield	13.0 MPa	1890 psi	ASTM D412
	@Strain 50.0 %	@Strain 50.0 %	
	17.0 MPa	2470 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
	31.0 MPa	4500 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	430 %	430 %	ASTM D412
Tear Strength	850 kN/m	4850 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	70	70	ASTM D1044(Taber) H-22
Compression Set	25 %	25 %	ASTM D395
	@Temperature 23.0 Â°C, Time 79200 sec	@Temperature 73.4 Â°F, Time 22.0 hour	
	35 %	35 %	ASTM D395
	@Temperature 70.0 Â°C, Time 79200 sec	@Temperature 158 Â°F, Time 22.0 hour	

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