

## GRECO ISOTHANE 1080A Poly(adipate)ester TPUÂ Resin

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

**Material Notes:**

ISOTHANE 1000 series products are general purpose poly(adipate)ester based thermoplastic polyurethanes. They exhibit excellent toughness, abrasive resistance, and solvent resistance. 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-1080A-Polyadipateester-TPUResin.php](http://www.lookpolymers.com/polymer_GRECO-ISOTHANE-1080A-Polyadipateester-TPUResin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Tensile Strength	34.0 MPa	4930 psi	ASTM D412
Tensile Strength, Yield	3.70 MPa	537 psi	ASTM D412
	@Strain 50.0 %	@Strain 50.0 %	
	5.10 MPa	740 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
	11.0 MPa	1600 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	580 %	580 %	ASTM D412
Tear Strength	80.0 kN/m	456 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	10	10	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	
	75 %	75 %	ASTM D395
	@Temperature 70.0 Â°C, Time 79200 sec	@Temperature 158 Â°F, Time 22.0 hour	

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