

GRECO ISOTHANE 1090AE Poly(adipate)ester TPUÂ Resin

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

Material Notes:

ISOTHANE 1000 Elite series products are Poly(adipate)ester based thermoplastic polyurethanes with good balanced qualities. They exhibit good toughness, abrasive resistance, solvent resistance, and transparency. 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-1090AE-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	90	90	ASTM D2240
Tensile Strength	29.0 MPa	4210 psi	ASTM D412
Tensile Strength, Yield	6.90 MPa @Strain 50.0 %	1000 psi @Strain 50.0 %	ASTM D412
	9.00 MPa @Strain 100 %	1310 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	90.0 kN/m	514 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	60	60	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
	70 % @Temperature 70.0 Â°C, Time 79200 sec	70 % @Temperature 158 Â°F, Time 22.0 hour	ASTM D395

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