

GRECO ISOTHANE 1075A 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-1075A-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	77	77	ASTM D2240
Tensile Strength	33.0 MPa	4790 psi	ASTM D412
Tensile Strength, Yield	3.10 MPa @Strain 50.0 %	450 psi @Strain 50.0 %	ASTM D412
	4.80 MPa @Strain 100 %	696 psi @Strain 100 %	ASTM D412
	10.0 MPa @Strain 300 %	1450 psi @Strain 300 %	ASTM D412
Elongation at Break	650 %	650 %	ASTM D412
Tear Strength	80.0 kN/m	456 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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