

GRECO ISOTHANE 1085AF Poly(adipate)ester TPUÂ Resin

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

Material Notes:

ISOTHANE 1000 FDA series products are 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. In compliance with FDA CFR 177.105, 177.1680, and 177.2600 requirements Information provided by Greater Eastern Resins Industrial Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GRECO-ISOTHANE-1085AF-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	85	85	ASTM D2240
Tensile Strength	36.0 MPa	5220 psi	ASTM D412
Tensile Strength, Yield	4.10 MPa	595 psi	ASTM D412
	@Strain 50.0 %	@Strain 50.0 %	
	6.20 MPa	899 psi	
Elongation at Break	@Strain 100 %	@Strain 100 %	ASTM D412
	13.0 MPa	1890 psi	ASTM D412
Tear Strength	@Strain 300 %	@Strain 300 %	ASTM D412
	80.0 kN/m	456 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	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	
Compression Set	75 %	75 %	ASTM D395
	@Temperature 70.0 Â°C, Time 79200 sec	@Temperature 158 Â°F, Time 22.0 hour	

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