

SK Chemicals SKYTHANE® T850A Polyester Based, Low Hardness Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Description: SK Chemicals has supplied Thermoplastic Polyurethane Elastomer (TPU) under the name of SKYTHANE. Applications include: Keyboard Covers, Outsoles of Soccer Shoes, Wire and Cable, Airbags, Sheets and Film, Hoses and Tubing, Shoe Components, Fire Hoses. Information provided by SK Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-T850A-Polyester-Based-Low-Hardness-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	56	56	ASTM D2240
Hardness, Shore D	12	12	ASTM D2240
Tensile Strength, Ultimate	11.8 MPa	1710 psi	ASTM D412
Elongation at Break	770 %	770 %	ASTM D412
100% Modulus	0.00152 GPa	0.220 ksi	ASTM D412
300% Modulus	0.00407 GPa	0.590 ksi	ASTM D412
Resilience	60	60	Vertical Rebound; ASTM D2632
Tear Strength	49.0 kN/m	280 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	H18 wheel, 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	62.0 Â°C	144 Â°F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	155 Â°C	311 Â°F	Transition Temperature
	155 Â°C	311 Â°F	Metering Temperature
Middle Barrel Temperature	150 Â°C	302 Â°F	

Processing Properties	Metric	English	Comments
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	

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