

SK Chemicals SKYTHANE® T870A Polyester Based, Low Hardness Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , 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-T870A-Polyester-Based-Low-Hardness-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	ASTM D2240
Hardness, Shore D	28	28	ASTM D2240
Tensile Strength, Ultimate	27.5 MPa	3980 psi	ASTM D412
Elongation at Break	850 %	850 %	ASTM D412
100% Modulus	0.00355 GPa	0.515 ksi	ASTM D412
300% Modulus	0.00710 GPa	1.03 ksi	ASTM D412
Resilience	52	52	Vertical Rebound; ASTM D2632
Tear Strength	88.3 kN/m	504 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	25	25	H18 wheel, 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	75.0 Â°C	167 Â°F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	175 Â°C	347 Â°F	Transition Temperature
	175 Â°C	347 Â°F	Metering Temperature
Middle Barrel Temperature	170 Â°C	338 Â°F	

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

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