

SK Chemicals SKYTHANE[®] S375D Polyester Based 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-S375D-Polyester-Based-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	ASTM D2240
Tensile Strength, Ultimate	46.1 MPa	6680 psi	ASTM D412
Elongation at Break	330 %	330 %	ASTM D412
100% Modulus	0.0321 GPa	4.65 ksi	ASTM D412
300% Modulus	0.0441 GPa	6.40 ksi	ASTM D412
Resilience	45	45	Vertical Rebound; ASTM D2632
Tear Strength	255 kN/m	1460 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	127	127	H18 wheel, 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 Å°C	266 Å°F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	215 Å°C	419 Å°F	Transition Temperature
	215 Å°C	419 Å°F	Metering Temperature
Middle Barrel Temperature	210 Å°C	410 Å°F	
Nozzle Temperature	220 Å°C	428 Å°F	

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