

SK Chemicals SKYTHANE[®] S168D 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-S168D-Polyester-Based-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 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	68	68	ASTM D2240
Tensile Strength, Ultimate	54.9 MPa	7970 psi	ASTM D412
Elongation at Break	430 %	430 %	ASTM D412
100% Modulus	0.0303 GPa	4.40 ksi	ASTM D412
300% Modulus	0.0441 GPa	6.40 ksi	ASTM D412
Resilience	45	45	Vertical Rebound; ASTM D2632
Tear Strength	245 kN/m	1400 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	90	90	H18 wheel, 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	163 Å°C	325 Å°F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	210 Å°C	410 Å°F	Transition Temperature
	210 Å°C	410 Å°F	Metering Temperature
Middle Barrel Temperature	205 Å°C	401 Å°F	
Nozzle Temperature	215 Å°C	419 Å°F	

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