

SK Chemicals SKYTHANE® S180A 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-S180A-Polyester-Based-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	ASTM D2240
Hardness, Shore D	32	32	ASTM D2240
Tensile Strength, Ultimate	34.3 MPa	4980 psi	ASTM D412
Elongation at Break	700 %	700 %	ASTM D412
100% Modulus	0.00510 GPa	0.740 ksi	ASTM D412
300% Modulus	0.0117 GPa	1.70 ksi	ASTM D412
Resilience	48	48	Vertical Rebound; ASTM D2632
Tear Strength	98.1 kN/m	560 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	85.0 Â°C	185 Â°F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	190 Â°C	374 Â°F	Transition Temperature
	190 Â°C	374 Â°F	Metering Temperature
Middle Barrel Temperature	185 Â°C	365 Â°F	

Nozzle Temperature Processing Properties	195 Â°C Metric	383 Â°F English	Comments
Zone 1	175 Â°C	347 Â°F	
Zone 2	180 Â°C	356 Â°F	
Zone 3	185 Â°C	365 Â°F	
Zone 4	190 Â°C	374 Â°F	
Adapter Temperature	190 Â°C	374 Â°F	
Die Temperature	190 Â°C	374 Â°F	Tip
	195 Â°C	383 Â°F	Body
Mold Temperature	20.0 - 40.0 Â°C	68.0 - 104 Â°F	

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