

SK Chemicals SKYTHANE® S190A 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-S190A-Polyester-Based-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage	0.0045 cm/cm	0.0045 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
Hardness, Shore D	48	48	ASTM D2240
Tensile Strength, Ultimate	43.1 MPa	6260 psi	ASTM D412
Elongation at Break	600 %	600 %	ASTM D412
100% Modulus	0.00965 GPa	1.40 ksi	ASTM D412
300% Modulus	0.0186 GPa	2.70 ksi	ASTM D412
Resilience	39	39	Vertical Rebound; ASTM D2632
Tear Strength	137 kN/m	784 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	30	30	H18 wheel, 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	110 Â°C	230 Â°F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	195 Â°C	383 Â°F	Transition Temperature
	195 Â°C	383 Â°F	Metering Temperature
Middle Barrel Temperature	190 Â°C	374 Â°F	

Nozzle Temperature Processing Properties	200 Â°C Metric	392 Â°F English	Comments
Zone 1	180 Â°C	356 Â°F	
Zone 2	185 Â°C	365 Â°F	
Zone 3	190 Â°C	374 Â°F	
Zone 4	195 Â°C	383 Â°F	
Adapter Temperature	195 Â°C	383 Â°F	
Die Temperature	195 Â°C	383 Â°F	Tip
	200 Â°C	392 Â°F	Body
Mold Temperature	20.0 - 40.0 Â°C	68.0 - 104 Â°F	

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