

SK Chemicals SKYTHANE® R195A Polyether Based Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether 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-R195A-Polyether-Based-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Linear Mold Shrinkage	0.0028 cm/cm	0.0028 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	52	52	ASTM D2240
Tensile Strength, Ultimate	36.3 MPa	5260 psi	ASTM D412
Elongation at Break	650 %	650 %	ASTM D412
100% Modulus	0.0110 GPa	1.60 ksi	ASTM D412
300% Modulus	0.0193 GPa	2.80 ksi	ASTM D412
Resilience	40	40	Vertical Rebound; ASTM D2632
Tear Strength	127 kN/m	728 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	33	33	H18 wheel, 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	200 °C	392 °F	Transition Temperature
	200 °C	392 °F	Metering Temperature
Middle Barrel Temperature	195 °C	383 °F	

Nozzle Temperature Processing Properties	205 Â°C Metric	401 Â°F English	Comments
Zone 1	185 Â°C	365 Â°F	
Zone 2	190 Â°C	374 Â°F	
Zone 3	195 Â°C	383 Â°F	
Zone 4	200 Â°C	392 Â°F	
Adapter Temperature	200 Â°C	392 Â°F	
Die Temperature	200 Â°C	392 Â°F	Tip
	205 Â°C	401 Â°F	Body
Mold Temperature	20.0 - 40.0 Â°C	68.0 - 104 Â°F	

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