

SK Chemicals SKYTHANE[®] X595A Polyester Based Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP

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-X595A-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	97	97	ASTM D2240
Hardness, Shore D	54	54	ASTM D2240
Tensile Strength, Ultimate	40.2 MPa	5830 psi	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
100% Modulus	0.0138 GPa	2.00 ksi	ASTM D412
300% Modulus	0.0248 GPa	3.60 ksi	ASTM D412
Resilience	36	36	Vertical Rebound; ASTM D2632
Tear Strength	127 kN/m	728 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	45	45	H18 wheel, 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	115 Â°C	239 Â°F	ASTM D1525

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