

SK Chemicals SKYTHANE® 590A X series Polyurethane

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

Material Notes:

SKYTHANE is a thermoplastic polyurethane elastomer (TPU). Like materials ranging from rubber to plastics, it has excellent physical properties such as anti-abrasion, oil-resistance and mechanical property. It is widely used for automotive parts and various industrial parts. Information provided by SK Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-590A-X-series-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Hardness, Shore D	44	44	ASTM D2240
Tensile Strength, Ultimate	53.9 MPa	7820 psi	ASTM D412
Tensile Strength, Yield	9.81 MPa	1420 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
	19.1 MPa	2770 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	650 %	650 %	ASTM D412
Resilience	40	40	by vertical rebound; ASTM D2632
Tear Strength	118 kN/m	672 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	40	40	H18 Wheel; 1000g load; ASTM D1044

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

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