

SK Chemicals SKYTHANE® 180A S 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-180A-S-series-Polyurethane.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
Tensile Strength, Yield	5.00 MPa @Strain 100 %	725 psi @Strain 100 %	ASTM D412
	11.8 MPa @Strain 300 %	1710 psi @Strain 300 %	ASTM D412
Elongation at Break	700 %	700 %	ASTM D412
Resilience	48	48	by 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

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