

SK Chemicals SKYTHANE[®] 175A 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-175A-S-series-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0083 cm/cm	0.0083 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	ASTM D2240
Hardness, Shore D	26	26	ASTM D2240
Tensile Strength, Ultimate	30.4 MPa	4410 psi	ASTM D412
Tensile Strength, Yield	3.43 MPa @Strain 100 %	498 psi @Strain 100 %	ASTM D412
	6.37 MPa @Strain 300 %	925 psi @Strain 300 %	ASTM D412
Elongation at Break	940 %	940 %	ASTM D412
Resilience	44	44	by vertical rebound; ASTM D2632
Tear Strength	88.3 kN/m	504 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	29	29	H18 Wheel; 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	84.0 Å°C	183 Å°F	ASTM D1525

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