

**SK Chemicals SKYTHANE<sup>®</sup> 185A 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-185A-S-series-Polyurethane.php](http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-185A-S-series-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 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	87	87	ASTM D2240
Hardness, Shore D	36	36	ASTM D2240
Tensile Strength, Ultimate	39.2 MPa	5690 psi	ASTM D412
Tensile Strength, Yield	6.86 MPa @Strain 100 %	996 psi @Strain 100 %	ASTM D412
	14.7 MPa @Strain 300 %	2130 psi @Strain 300 %	ASTM D412
Elongation at Break	650 %	650 %	ASTM D412
Resilience	45	45	by vertical rebound; ASTM D2632
Tear Strength	108 kN/m	616 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	95.0 Å°C	203 Å°F	ASTM D1525

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