

## SK Chemicals SKYTHANE® 180A R 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-R-series-Polyurethane.php](http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-180A-R-series-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 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	80	80	ASTM D2240
Hardness, Shore D	33	33	ASTM D2240
Tensile Strength, Ultimate	29.4 MPa	4270 psi	ASTM D412
Tensile Strength, Yield	4.90 MPa @Strain 100 %	711 psi @Strain 100 %	ASTM D412
	9.32 MPa @Strain 300 %	1350 psi @Strain 300 %	ASTM D412
Elongation at Break	840 %	840 %	ASTM D412
Resilience	52	52	by vertical rebound; ASTM D2632
Tear Strength	88.3 kN/m	504 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	10	10	H18 Wheel; 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	82.0 Å°C	180 Å°F	ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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