

**SK Chemicals SKYTHANE® 870A T 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-870A-T-series-Polyurethane.php](http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-870A-T-series-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	ASTM D2240
Hardness, Shore D	28	28	ASTM D2240
Tensile Strength, Ultimate	27.5 MPa	3980 psi	ASTM D412
Tensile Strength, Yield	3.43 MPa @Strain 100 %	498 psi @Strain 100 %	ASTM D412
	6.86 MPa @Strain 300 %	996 psi @Strain 300 %	ASTM D412
Elongation at Break	850 %	850 %	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	25	25	H18 Wheel; 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	75.0 Å°C	167 Å°F	ASTM D1525

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