

SK Chemicals SKYTHANE® 168D 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-168D-S-series-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Ultimate	54.9 MPa	7970 psi	ASTM D412
Tensile Strength, Yield	30.4 MPa	4410 psi	ASTM D412
	@Strain 100 %	@Strain 100 %	
	44.1 MPa	6400 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	430 %	430 %	ASTM D412
Resilience	45	45	by vertical rebound; ASTM D2632
Tear Strength	245 kN/m	1400 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	90	90	H18 Wheel; 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	163 Â°C	325 Â°F	ASTM D1525

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