

SK Chemicals SKYTHANE® 385A 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-385A-S-series-Polyurethane.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-----------|
| Specific Gravity | 1.19 g/cc | 1.19 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 | 85 | 85 | ASTM D2240 |
| Hardness, Shore D | 35 | 35 | ASTM D2240 |
| Tensile Strength, Ultimate | 34.3 MPa | 4980 psi | ASTM D412 |
| Tensile Strength, Yield | 3.92 MPa @Strain 100 % | 569 psi @Strain 100 % | ASTM D412 |
| | 8.34 MPa @Strain 300 % | 1210 psi @Strain 300 % | ASTM D412 |
| Elongation at Break | 910 % | 910 % | ASTM D412 |
| Resilience | 30 | 30 | by vertical rebound; ASTM D2632 |
| Tear Strength | 93.2 kN/m | 532 pli | Die C; ASTM D624 |
| Taber Abrasion, mg/1000 Cycles | 13 | 13 | H18 Wheel; 1000g load; ASTM D1044 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|------------|
| Vicat Softening Point | 62.0 °C | 144 °F | ASTM D1525 |

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