

SK Chemicals SKYTHANE[®] S360D Polyester Based Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Description: SK Chemicals has supplied Thermoplastic Polyurethane Elastomer (TPU) under the name of SKYTHANE. Applications include: Keyboard Covers, Outsoles of Soccer Shoes, Wire and Cable, Airbags, Sheets and Film, Hoses and Tubing, Shoe Components, Fire Hoses. Information provided by SK Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-S360D-Polyester-Based-Thermoplastic-Polyurethane-Elastomer.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-----------|
| Specific Gravity | 1.25 g/cc | 1.25 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 | 63 | 63 | ASTM D2240 |
| Tensile Strength, Ultimate | 41.2 MPa | 5970 psi | ASTM D412 |
| Elongation at Break | 420 % | 420 % | ASTM D412 |
| 100% Modulus | 0.0248 GPa | 3.60 ksi | ASTM D412 |
| 300% Modulus | 0.0379 GPa | 5.50 ksi | ASTM D412 |
| Resilience | 40 | 40 | Vertical Rebound; ASTM D2632 |
| Tear Strength | 216 kN/m | 1230 pli | Die C; ASTM D624 |
| Taber Abrasion, mg/1000 Cycles | 80 | 80 | H18 wheel, 1000g load; ASTM D1044 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|------------|
| Vicat Softening Point | 120 Å°C | 248 Å°F | ASTM D1525 |

| Processing Properties | Metric | English | Comments |
|---------------------------|---------|---------|------------------------|
| Processing Temperature | 210 Å°C | 410 Å°F | Transition Temperature |
| | 210 Å°C | 410 Å°F | Metering Temperature |
| Middle Barrel Temperature | 205 Å°C | 401 Å°F | |
| Nozzle Temperature | 215 Å°C | 419 Å°F | |

| Mold Temperature Processing Properties | 20.0 - 40.0 Å°C Metric | 68.0 - 104 Å°F English | Comments |
|---|---------------------------|---------------------------|----------|
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