

## SK Chemicals SKYTHANE® CS195A Calendaring Series, Polyether Based Thermoplastic Polyurethane Elastomer

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

### 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-CS195A-Calendaring-Series-Polyether-Based-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-CS195A-Calendaring-Series-Polyether-Based-Thermoplastic-Polyurethane-Elastomer.php)

| Physical Properties   | Metric       | English      | Comments  |
|-----------------------|--------------|--------------|-----------|
| Specific Gravity      | 1.19 g/cc    | 1.19 g/cc    | ASTM D792 |
| Linear Mold Shrinkage | 0.0010 cm/cm | 0.0010 in/in | ASTM D955 |

| Mechanical Properties          | Metric      | English   | Comments                          |
|--------------------------------|-------------|-----------|-----------------------------------|
| Hardness, Shore A              | 94          | 94        | ASTM D2240                        |
| Hardness, Shore D              | 51          | 51        | ASTM D2240                        |
| Tensile Strength, Ultimate     | 37.3 MPa    | 5400 psi  | ASTM D412                         |
| Elongation at Break            | 530 %       | 530 %     | ASTM D412                         |
| 100% Modulus                   | 0.01417 GPa | 2.055 ksi | ASTM D412                         |
| 300% Modulus                   | 0.02534 GPa | 3.675 ksi | ASTM D412                         |
| Resilience                     | 25          | 25        | Vertical Rebound; ASTM D2632      |
| Tear Strength                  | 137 kN/m    | 784 pli   | Die C; ASTM D624                  |
| Taber Abrasion, mg/1000 Cycles | 30          | 30        | H18 wheel, 1000g load; ASTM D1044 |

| Thermal Properties    | Metric   | English | Comments   |
|-----------------------|----------|---------|------------|
| Vicat Softening Point | 90.0 Å°C | 194 Å°F | ASTM D1525 |

| Processing Properties  | Metric  | English | Comments            |
|------------------------|---------|---------|---------------------|
| Processing Temperature | 140 Å°C | 284 Å°F | Warming Roll        |
|                        | 150 Å°C | 302 Å°F | Mixing Roll         |
|                        | 170 Å°C | 338 Å°F | Strainer (extruder) |

| Processing Properties     | Metric          | English        | Comments               |
|---------------------------|-----------------|----------------|------------------------|
|                           | 195 Â°C         | 383 Â°F        | Transition Temperature |
|                           | 195 Â°C         | 383 Â°F        | Metering Temperature   |
| Middle Barrel Temperature | 190 Â°C         | 374 Â°F        |                        |
| Nozzle Temperature        | 200 Â°C         | 392 Â°F        |                        |
| Zone 1                    | 180 Â°C         | 356 Â°F        |                        |
| Zone 2                    | 185 Â°C         | 365 Â°F        |                        |
| Zone 3                    | 190 Â°C         | 374 Â°F        |                        |
| Zone 4                    | 195 Â°C         | 383 Â°F        |                        |
| Adapter Temperature       | 195 Â°C         | 383 Â°F        |                        |
| Die Temperature           | 195 Â°C         | 383 Â°F        | Tip                    |
|                           | 200 Â°C         | 392 Â°F        | Body                   |
| Mold Temperature          | 20.0 - 40.0 Â°C | 68.0 - 104 Â°F |                        |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China