

## SK Chemicals SKYTHANE<sup>®</sup> L185A Polycaprolactone 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-L185A-Polycaprolactone-Based-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-L185A-Polycaprolactone-Based-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 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
Elongation at Break	600 %	600 %	ASTM D412
100% Modulus	0.00538 GPa	0.780 ksi	ASTM D412
300% Modulus	0.0124 GPa	1.80 ksi	ASTM D412
Resilience	40	40	Vertical Rebound; ASTM D2632
Tear Strength	98.1 kN/m	560 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	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	195 Å°C	383 Å°F	Transition Temperature
	195 Å°C	383 Å°F	Metering Temperature
Middle Barrel Temperature	190 Å°C	374 Å°F	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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