

## SK Chemicals SKYTHANE® CR180A Calendaring Series, Polyether Based Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether 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-CR180A-Calendaring-Series-Polyether-Based-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-CR180A-Calendaring-Series-Polyether-Based-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Hardness, Shore D	34	34	ASTM D2240
Tensile Strength, Ultimate	29.4 MPa	4270 psi	ASTM D412
Elongation at Break	600 %	600 %	ASTM D412
100% Modulus	0.00507 GPa	0.735 ksi	ASTM D412
300% Modulus	0.0101 GPa	1.47 ksi	ASTM D412
Resilience	40	40	Vertical Rebound; ASTM D2632
Tear Strength	88.3 kN/m	504 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	10	10	H18 wheel, 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	70.0 Å°C	158 Å°F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	130 Å°C	266 Å°F	Warming Roll
	140 Å°C	284 Å°F	Mixing Roll
	155 Å°C	311 Å°F	Invert L Roll

Processing Properties	Metric	English	Comments (extruder)
	185 Â°C	365 Â°F	Transition Temperature
	185 Â°C	365 Â°F	Metering Temperature
Middle Barrel Temperature	180 Â°C	356 Â°F	
Nozzle Temperature	190 Â°C	374 Â°F	
Zone 1	170 Â°C	338 Â°F	
Zone 2	175 Â°C	347 Â°F	
Zone 3	180 Â°C	356 Â°F	
Zone 4	185 Â°C	365 Â°F	
Adapter Temperature	185 Â°C	365 Â°F	
Die Temperature	185 Â°C	365 Â°F	Tip
	190 Â°C	374 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