

## SK Chemicals SKYTHANE® SG400 SKYGREEN Biodegradable Thermoplastic

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

### Material Notes:

SKYGREEN is a series of aliphatic polyester and aliphatic/aromatic copolyester that is degraded into water and carbon dioxide by microorganisms. SKYGREEN, biodegradable thermoplastics, has been developed on the basis of the SK Chemicals polyethylene terephthalate (PET) technology. There is no other chemical linkage than ester in its molecular structure. SkyGreen fully degrades into CO<sub>2</sub> and H<sub>2</sub>O via hydrolysis mechanism. Within 45 days, the polymer degrades completely in the composting condition. Information provided by SK Chemicals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SK-Chemicals-SKYTHANE-SG400-SKYGREEN-Biodegradable-Thermoplastic.php](http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-SG400-SKYGREEN-Biodegradable-Thermoplastic.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Melt Flow	7.5 g/10 min	7.5 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	ASTM D2240
Tensile Strength, Ultimate	7.85 MPa	1140 psi	ASTM D638
Elongation at Break	400 %	400 %	ASTM D638
Flexural Yield Strength	5.00 MPa	725 psi	ASTM D790
Flexural Modulus	0.0715 GPa	10.4 ksi	ASTM D790
Izod Impact, Notched	4.02 J/cm	7.53 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	120 °C	248 °F	ASTM D3418

## 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