

SK Chemicals SKYTHANE[®] SG100 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 CO₂ and H₂O 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-SG100-SKYGREEN-Biodegradable-Thermoplastic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Melt Flow	35 g/10 min	35 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 Â°C	@Load 4.76 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ASTM D2240
Tensile Strength, Ultimate	42.2 MPa	6120 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Flexural Yield Strength	47.9 MPa	6940 psi	ASTM D790
Flexural Modulus	0.8574 GPa	124.4 ksi	ASTM D790
Izod Impact, Notched	0.588 J/cm	1.10 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	118 Â°C	244 Â°F	ASTM D3418
Softening Point	97.0 Â°C	207 Â°F	ASTM D1525

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