

SK Chemicals SKYTHANE® SG200 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-SG200-SKYGREEN-Biodegradable-Thermoplastic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Melt Flow	15 g/10 min	15 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	55	55	ASTM D2240
Tensile Strength, Ultimate	21.6 MPa	3130 psi	ASTM D638
Elongation at Break	400 %	400 %	ASTM D638
Flexural Yield Strength	17.8 MPa	2590 psi	ASTM D790
Flexural Modulus	0.2858 GPa	41.45 ksi	ASTM D790
Izod Impact, Notched	2.94 J/cm	5.51 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	90.0 °C	194 °F	ASTM D3418
Softening Point	79.0 °C	174 °F	ASTM D1525

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