

FKuR Kunststoff Biograde® C 9550 Biodegradable Plastic Compound

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Wood and Natural Products

Material Notes:

BIOGRADE® are easy to process blends based on cellulose. BIOGRADE® is composed mainly of natural resources. Based on cellulose, a product of the paper industry BIOGRADE® has been especially designed for injection molding applications. BIOGRADE® is mainly composed of natural resource materials (European Soft Wood from sustainable forestry) and does not contain starch or starch derivatives. Information Provided by FKuR Kunststoff GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Biograde-C-9550-Biodegradable-Plastic-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	0.970 g/cc	0.0350 lb/in ³	ISO 60
Density	1.67 g/cc	0.0603 lb/in ³	ISO 1183
Melt Flow	5.0 - 9.0 g/10 min @Load 5.00 kg, Temperature 230 °C	5.0 - 9.0 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ISO 527
Tensile Strength, Yield	46.0 MPa	6670 psi	ISO 527
Elongation at Break	6.0 %	6.0 %	ISO 527
Elongation at Yield	6.0 %	6.0 %	ISO 527
Tensile Modulus	4.40 GPa	638 ksi	ISO 527
Flexural Yield Strength	72.0 MPa	10400 psi	at 3.5% strain; 6.5% strain at break; ISO 178
Flexural Modulus	4.95 GPa	718 ksi	ISO 178
Charpy Impact Unnotched	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1/1eU
Charpy Impact, Notched	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
Melting Point	>= 180 °C	>= 356 °F	ISO 3146-C

Thermal Properties	Metric	English	Comments
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Descriptive Properties	Value	Comments
Melt Volume Flow (cm3/10 min)	3-6	ISO 1133; 230Â°C, 5kg

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