

FKuR Kunststoff Biograde® C 7500 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-7500-Biodegradable-Plastic-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	0.760 g/cc	0.0275 lb/in ³	ISO 60
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Melt Flow	17 - 21 g/10 min @Load 5.00 kg, Temperature 230 °C	17 - 21 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527
Tensile Strength	66.0 MPa	9570 psi	ISO 527
Elongation at Break	12.5 %	12.5 %	ISO 527
Elongation at Yield	12.5 %	12.5 %	ISO 527
Tensile Modulus	3.00 GPa	435 ksi	ISO 527
Flexural Strength	70.0 MPa	10200 psi	at 3.5% strain;; ISO 178
Flexural Modulus	2.95 GPa	428 ksi	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179-1/1eU
Charpy Impact, Notched	0.650 J/cm ² @Temperature 23.0 °C	3.09 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	$\geq 180\text{ }^{\circ}\text{C}$ Metric	$\geq 356\text{ }^{\circ}\text{F}$ English	ISO 3146-C Comments
Vicat Softening Point	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	A; ISO 306

Descriptive Properties	Value	Comments
Melt Volume Flow (cm ³ /10 min)	9-13	ISO 1133; 230 $^{\circ}\text{C}$, 5kg

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