

FKuR Kunststoff Biograde® C 6509 CL 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. Furthermore BIOGRADE® has the following advantages: high content of natural resource materials excellent heat resistance - up to 115 °C injection mouldable on conventional injection moulding equipment processable with multi-cavity moulds flat sheet / film suitable for thermoforming on conventional deep drawing machinery properties comparable to polystyrene: rigid and transparent depending on grade. Food contact approved Biodegradability certified by independent organisations. BIOGRADE® C 6509 CL is a further development of the grade BIOGRADE® C 7500. Besides its excellent transparency, BIOGRADE® C 6509 CL has an extended flowability making it especially suitable for thin walled parts and long flow paths. Its flexibility and mechanical properties are better than general purpose PS in many respects. Furthermore, it consists to a large degree of natural resources. With a Vicat A temperature of 100 °C it has an excellent heat resistance for bioplastics. Information Provided by FKUR Kunststoff GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Biograde-C-6509-CL-Biodegradable-Plastic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Melt Flow	38 - 42 g/10 min @Load 5.00 kg, Temperature 230 °C	38 - 42 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	DIN 53505
Tensile Strength	62.5 MPa	9060 psi	ISO 527
Tensile Stress	62.0 MPa	8990 psi	At break; ISO 527
Elongation at Break	12.6 %	12.6 %	ISO 527
Elongation at Yield	12.6 %	12.6 %	ISO 527
Tensile Modulus	2.70 GPa	391 ksi	ISO 527
Flexural Yield Strength	69.0 MPa @Strain 3.50 %	10000 psi @Strain 3.50 %	ISO 178
Flexural Modulus	2.89 GPa	419 ksi	ISO 178
	NB	NB	

Charpy Impact Unnotched Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	No break; ISO 179-1/1eU Comments
Charpy Impact, Notched	0.500 J/cmÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
Melting Point	180 - 190 Â°C	356 - 374 Â°F	ISO 3146-C
Vicat Softening Point	104 Â°C	219 Â°F	A; ISO 306

Descriptive Properties	Value	Comments
Flexural strain at break (%)	No break	ISO 178
Melt Volume Flow (cm ³ /10 min)	34-37.5	ISO 1133; 230Â°C, 5kg

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