

FKuR Kunststoff Bio-Flex® F 6611 Compostable PLA Blend

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polylactic Acid (PLA) Biopolymer

Material Notes:

The BIO-FLEX® trade name indicates blends of co-polyester and PLA* with, depending on the particular grade, a very high content of natural resource material. BIO-FLEX® does not contain any starch or starch derivatives. Bioplastics generally replace conventional materials such as low density polyethylene (LDPE), high density polythene (HDPE) as well as polystyrene (PS) and polypropylene (PP). For packaging applications these materials need to be converted into film which is as thin as possible while maintaining high tensile strength. Depending on the specific application, packaging films have to provide a high barrier against humidity, oxygen and aromas or alternatively provide adequate permeability (‘breathability’). BIO-FLEX® F 6611 is a certified GMO-free and consistent further development of the current product portfolio. BIO-FLEX® F 6611 is ideally used for thermoforming. It is pleasant to the touch and has a pearlescent gloss. With a heat distortion temperature of over 130 °C, which can be reached by appropriate processing, it has an outstanding heat resistance for a bioplastic. BIO-FLEX® F 6611 is furthermore biodegradable and predominantly composed of renewable resource raw materials.

Information Provided by FKuR Kunststoff GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Bio-Flex-F-6611-Compostable-PLA-Blend.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Melt Flow	4.0 - 6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 - 6.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Stress	16.0 MPa	2320 psi	At break; ISO 527
Tensile Strength, Yield	46.0 MPa	6670 psi	ISO 527
Elongation at Break	9.7 %	9.7 %	ISO 527
Elongation at Yield	2.5 %	2.5 %	ISO 527
Tensile Modulus	2.73 GPa	396 ksi	ISO 527
Flexural Yield Strength	66.0 MPa @Strain 3.5 %	9570 psi @Strain 3.5 %	ISO 178
Flexural Modulus	2.51 GPa	364 ksi	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	No Break; ISO 179-1/1eU
	0.690 J/cm ²		

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 Å°C	3.28 ft-lb/inÅ²	ISO 179-1/1eA
		@ Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Melting Point	150 - 170 Å°C	302 - 338 Å°F	ISO 3146-C
Vicat Softening Point	62.0 Å°C	144 Å°F	A; ISO 306

Descriptive Properties	Value	Comments
Flexural Elongation at break (%)	No break	ISO 178
Melt Volume Flow (cm3/10 min)	3.5-5.0	ISO 1133; 190Å°C, 2.16kg

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