

FKuR Kunststoff Bio-Flex[®] S 9533 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 (œbreathabilityœ).BIO-FLEX[®] S 9533 has been designed especially for injection moulding applications. Ideal for moulding, a result of its excellent flow characteristics, its mechanical properties are comparable to conventional polystyrene (PS). Furthermore BIO-FLEX[®] S 9533 is biodegradable with a high percentage of renewable resource raw material content. Information Provided by FKuR Kunststoff GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Bio-Flex-S-9533-Compostable-PLA-Blend.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Melt Flow	12 - 14 g/10 min	12 - 14 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.0 MPa	7400 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Elongation at Yield	3.8 %	3.8 %	ISO 527
Tensile Modulus	4.56 GPa	661 ksi	ISO 527
Flexural Modulus	4.68 GPa	679 ksi	ISO 178
Charpy Impact Unnotched	2.70 J/cm ²	12.8 ft-lb/in ²	ISO 179-1/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.150 J/cm ²	0.714 ft-lb/in ²	ISO 179-1/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	150 - 170 °C	302 - 338 °F	ISO 3146-C

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Descriptive Properties	Value	Comments
Flexural strain at break (%)	2.9	ISO 178
Tensile stress at break (MPa)	43	ISO 527

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China