

FKuR Kunststoff Bio-Flex[®] F 2110 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 (â€œbreathabilityâ€). Information Provided by FKUR Kunststoff GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Bio-Flex-F-2110-Compostable-PLA-Blend.php

Physical Properties	Metric	English	Comments
Bulk Density	0.770 g/cc	0.0278 lb/in ³	ISO 60
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Water Vapor Transmission	130 g/m ² /day @Thickness 0.0300 mm	8.37 g/100 in ² /day @Thickness 0.00118 in	ISO 15 106-3
Oxygen Transmission Rate	1450 cc/m ² /day @Thickness 0.0300 mm	93.4 cc/100 in ² /day @Thickness 0.00118 in	1 bar; ISO 15 105-2
Nitrogen Transmission	6.99 cc-mm/m ² -24hr-atm @Thickness 0.0300 mm	17.8 cc-mil/100 in ² -24hr-atm @Thickness 0.00118 in	DIN 53380-2
Melt Flow	3.0 - 5.0 g/10 min @Load 2.16 kg, Temperature 190 Â°C	3.0 - 5.0 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527
Elongation at Yield	>= 300 %	>= 300 %	ISO 527
Tensile Modulus	0.730 GPa	106 ksi	ISO 527
Flexural Strength	17.0 MPa	2470 psi	at 3.5% strain; ISO 178
Flexural Modulus	0.680 GPa	98.6 ksi	ISO 178
	NB	NB	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	8.30 J/cm ² @Temperature 23.0 °C	39.5 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
Melting Point	145 - 160 °C	293 - 320 °F	ISO 3146-C
Vicat Softening Point	78.0 °C	172 °F	A; ISO 306

Descriptive Properties	Value	Comments
Melt Volume Flow (cm ³ /10 min)	3-4	ISO 1133; 190°C, 2.16kg

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