FKuR Kunststoff Bio-FlexÂ® F 6510 Compostable PLA Blend

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

Material Notes:

The BIO-FLEXÂ® trade name indicates blends of co-polyester and PLA* with, depending on the particular grade, a very high content of natural resource material. BIO-FLEXÂ® 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-6510-Compostable-PLA-Blend.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/inÂ³	ISO 60
Density	1.30 g/cc	0.0470 lb/inÂ³	ISO 1183
Water Vapor Transmission	130 g/mÂ²/day @Thickness 0.0200 mm	8.37 g/100 inÂ²/day @Thickness 0.000787 in	ISO 15 106-3
Oxygen Transmission Rate	1060 cc/mÂ²/day @Thickness 0.0200 mm	68.3 cc/100 inÂ²/day @Thickness 0.000787 in	1 bar; ISO 15 105-2
Nitrogen Transmission	3.04 cc-mm/mÂ²-24hr-atm @Thickness 0.0200 mm	7.72 cc-mil/100 inÂ²-24hr-atm @Thickness 0.000787 in	DIN 53380-2
Melt Flow	2.5 - 4.5 g/10 min @Load 2.16 kg, Temperature 190 Â°C	2.5 - 4.5 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	23.0 MPa	3340 psi	ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	ISO 527
Elongation at Break	19 %	19 %	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
Tensile Modulus	2.60 GPa	377 ksi	ISO 527
Flexural Strength	64.0 MPa	9280 psi	at 3.5% strain; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.65 GPa	384 ksi	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ISO 179-1/1eU
Charpy Impact, Notched	0.700 J/cmÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
Melting Point	150 - 170 Â°C	302 - 338 Â°F	ISO 3146-C
Vicat Softening Point	60.0 Â°C	140 Â°F	A; ISO 306

Descriptive Properties	Value	Comments
Melt Volume Flow (cm3/10 min)	2.5-4.5	ISO 1133; 190Â°C, 2.16kg

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