FKuR Kunststoff Bio-FlexÂ® A 4100 CL 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-A-4100-CL-Compostable-PLA-Blend.php

Physical Properties	Metric	English	Comments
Bulk Density	0.820 g/cc	0.0296 lb/inÂ³	ISO 60
Density	1.24 g/cc	0.0448 lb/inÂ³	ISO 1183
Water Vapor Transmission	170 g/mÂ²/day @Thickness 0.0200 mm	10.9 g/100 inÂ²/day @Thickness 0.000787 in	ISO 15 106-3
Oxygen Transmission Rate	130 cc/mÂ²/day @Thickness 0.0200 mm	8.37 cc/100 inÂ²/day @Thickness 0.000787 in	1 bar; ISO 15 105-2
Nitrogen Transmission	1.646 cc-mm/mÂ²-24hr-atm @Thickness 0.0250 mm	4.181 cc-mil/100 inÂ²-24hr-atm @Thickness 0.000984 in	DIN 53380-2
Melt Flow	10 - 12 g/10 min @Load 2.16 kg, Temperature 190 Â°C	10 - 12 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	ISO 527
Tensile Strength, Yield	44.0 MPa	6380 psi	ISO 527
Elongation at Break	12 %	12 %	ISO 527
Elongation at Yield	5.0 %	5.0 %	ISO 527
Tensile Modulus	1.84 GPa	267 ksi	ISO 527
Flexural Strength	48.0 MPa	6960 psi	at 3.5% strain; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.77 GPa	257 ksi	ISO 178
Charpy Impact Unnotched	4.40 J/cmÂ² @Temperature 23.0 Â°C	20.9 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1/1eU
Charpy Impact, Notched	0.300 J/cmÂ² @Temperature 23.0 Â°C	1.43 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
Melting Point	>= 155 Â°C	>= 311 Â°F	ISO 3146-C
Vicat Softening Point	44.0 Â°C	111 Â°F	A; ISO 306
Heat Distortion Temperature	40.0 Â°C	104 Â°F	HDT B; ISO 75

Descriptive Properties	Value	Comments
Melt Volume Flow (cm3/10 min)	9-11	ISO 1133; 190Â°C, 2.16kg

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