FKuR Kunststoff Bio-FlexÂ® F 2201 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€).BIO-FLEXÂ® F 2201 CL is predominantly composed of renewable resource raw materials. A film made from BIO-FLEXÂ® F 2201 CL stands out due to its high transparency as well as its high flexibility and toughness. Due to the good interply strength of the layers this material is basically used in multilayer systems. Information Provided by FKuR Kunststoff GmbH

Order this product through the following link:
http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Bio-Flex-F-2201-CL-Compostable-PLA-Blend.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/inÂ³	ISO 1183
Melt Flow	8.0 - 10 g/10 min @Load 2.16 kg, Temperature 190 Â°C	8.0 - 10 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527
Elongation at Yield	>= 400 %	>= 400 %	ISO 527
Tensile Modulus	1.15 GPa	167 ksi	ISO 527
Flexural Yield Strength	28.0 MPa @Strain 3.50 %	4060 psi @Strain 3.50 %	
Flexural Modulus	1.05 GPa	152 ksi	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ISO 179-1/1 eU
Charpy Impact, Notched	1.200 J/cmÂ² @Temperature 23.0 Â°C	5.710 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
Melting Point	145 - 160 Â°C	293 - 320 Â°F	ISO 11357-3

Descriptive Properties	Value	Comments
Flexural strain at break (%)	No break	ISO 178
Melt Volume Flow (cm3/10 min)	7-9.5	ISO 1133; 190Â°C, 2.16kg
Unnotched Charpy Impact Strength (kJ/m^2)	No break	ISO 179-1/1 eU

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