

FKuR Kunststoff Bio-Flex® S 5630 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). Information Provided by FKuR Kunststoff GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Bio-Flex-S-5630-Compostable-PLA-Blend.php

Physical Properties	Metric	English	Comments
Bulk Density	0.895 g/cc	0.0323 lb/in ³	ISO 60
Density	1.55 g/cc	0.0560 lb/in ³	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 at Break	29.0 MPa	4210 psi	ISO 527
Tensile Strength	32.0 MPa	4640 psi	ISO 527
Elongation at Break	9.0 %	9.0 %	ISO 527
Elongation at Yield	6.0 %	6.0 %	ISO 527
Tensile Modulus	2.16 GPa	313 ksi	ISO 527
Flexural Strength	46.0 MPa	6670 psi	at 3.5% strain; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Charpy Impact Unnotched	5.10 J/cm ² @Temperature 23.0 Â°C	24.3 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179-1/1eU
Charpy Impact, Notched	0.300 J/cm ² @Temperature 23.0 Â°C	1.43 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
Melting Point	140 - 160 Â°C	284 - 320 Â°F	ISO 3146-C
Deflection Temperature at 0.46 MPa (66 psi)	68.0 Â°C	154 Â°F	ISO 75 B
Vicat Softening Point	105 Â°C	221 Â°F	A; ISO 306

Descriptive Properties	Value	Comments
Melt Volume Flow (cm ³ /10 min)	8-10	ISO 1133; 190Â°C, 2.16kg

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