

## FKuR Kunststoff Bio-Flex® F 1110 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-F-1110-Compostable-PLA-Blend.php](http://www.lookpolymers.com/polymer_FKuR-Kunststoff-Bio-Flex-F-1110-Compostable-PLA-Blend.php)

| Physical Properties | Metric                                                     | English                                                    | Comments |
|---------------------|------------------------------------------------------------|------------------------------------------------------------|----------|
| Bulk Density        | 0.760 g/cc                                                 | 0.0275 lb/in³                                              | ISO 60   |
| Density             | 1.28 g/cc                                                  | 0.0462 lb/in³                                              | ISO 1183 |
| Melt Flow           | 2.0 - 4.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 2.0 - 4.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ISO 1133 |

| Mechanical Properties   | Metric                     | English                    | Comments                |
|-------------------------|----------------------------|----------------------------|-------------------------|
| Tensile Strength, Yield | 16.0 MPa                   | 2320 psi                   | ISO 527                 |
| Elongation at Yield     | >= 300 %                   | >= 300 %                   | ISO 527                 |
| Tensile Modulus         | 0.230 GPa                  | 33.4 ksi                   | ISO 527                 |
| Flexural Strength       | 6.00 MPa                   | 870 psi                    | at 3.5% strain; ISO 178 |
| Flexural Modulus        | 0.215 GPa                  | 31.2 ksi                   | ISO 178                 |
| Charpy Impact Unnotched | NB<br>@Temperature 23.0 °C | NB<br>@Temperature 73.4 °F | ISO 179-1/1eU           |
| Charpy Impact, Notched  | NB<br>@Temperature 23.0 °C | NB<br>@Temperature 73.4 °F | ISO 179-1/1eA           |

| Thermal Properties    | Metric    | English   | Comments   |
|-----------------------|-----------|-----------|------------|
| Melting Point         | >= 155 °C | >= 311 °F | ISO 3146-C |
| Vicat Softening Point | 68.0 °C   | 154 °F    | A; ISO 306 |

| Thermal Properties            | Metric | English | Comments                 |
|-------------------------------|--------|---------|--------------------------|
| Descriptive Properties        |        | Value   | Comments                 |
| Melt Volume Flow (cm3/10 min) |        | 1.5-3.5 | ISO 1133; 190Â°C, 2.16kg |

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