

Technical data sheet

Product name: Bio-Flex® FX 1130 (previously V 143704)
Date of issue: 22 February 2016

Version: 1.0

Designation of product, preparation and manufacturer

Trade name: Bio-Flex® FX 1130 (previously V 143704)
Use of product: Biodegradable and compostable compound for blown film extrusion. Certified (according to EN 13432) with a maximum thickness of 112 µm. Used in applications such as waste bags or T-Shirt bags.
Manufacturer: FKUR Kunststoff GmbH
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Film properties (thickness 30 µm, BUR 2.3)

| | | | |
|--|-----------|--------|-------------|
| Tensile modulus MD/TD | 300 / 200 | [MPa] | ISO 527-5 |
| Tensile strength (yield stress) MD/TD | 25 / 21 | [MPa] | ISO 527-5 |
| Tensile strain at tensile strength MD/TD | 300 / 500 | [%] | ISO 527-5 |
| Tensile stress at break MD/TD | 25 / 21 | [MPa] | ISO 527-5 |
| Tensile strain at break MD/TD | 300 / 510 | [%] | ISO 527-5 |
| Elmendorf tear resistance MD/TD | 110 / 110 | [N/mm] | ASTM D 1922 |
| Impact strength (Spencer Impact Test) | 420 | [N/mm] | ASTM D 3420 |

MD= machine direction, TD = transverse direction

The values listed have been established on films at standard temperature and humidity conditions.

Physical properties

| | | | |
|-----------------------------------|-----------|--------------|------------|
| Melt flow rate (190 °C/2.16 kg) | 2.0 - 4.0 | [g/10 min] | ISO 1133 |
| Melt volume rate (190 °C/2.16 kg) | 1.5 - 3.2 | [cm³/10 min] | ISO 1133 |
| Melting temperature | > 155 | [°C] | ISO 3146-C |
| Density | 1.39 | [g/cm³] | ISO 1183 |

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The figures should be regarded as guide values only. Under certain conditions the properties can be influenced to a significant extent by the processing conditions.

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