

Technical data sheet

Product name: Bio-Flex® FX 1137
Date of issue: 23 December 2016

Version: 1.0

Designation of product, preparation and manufacturer

Trade name: Bio-Flex® FX 1137
(previously Bio-Flex V 154601)

Use of product: Biodegradable and compostable compound for blown film extrusion. Certified (according to EN 13432) with a maximum thickness of 60 µm. Used in applications such as waste bags or T-Shirt bags.

Manufacturer: FKUR Kunststoff GmbH
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Film properties (thickness 25 µm, BUR 2.3)

Tensile modulus MD/TD	330 / 185	[MPa]	ISO 527-3
Tensile strength (yield stress) MD/TD	19 / 15	[MPa]	ISO 527-3
Tensile strain at tensile strength MD/TD	330 / 480	[%]	ISO 527-3
Tensile stress at break MD/TD	17 / 15	[MPa]	ISO 527-3
Tensile strain at break MD/TD	335 / 485	[%]	ISO 527-3
Elmendorf tear resistance MD/TD	95 / 150	[N/mm]	ASTM D 1922
Impact strength (Spencer Impact Test)	260	[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)	3.5 - 5.5	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	2.7 - 4.3	[cm³/10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Density	1.43	[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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