

## Technical data sheet

**Product name:** Bio-Flex® F 2104 (previously V 173919)  
**Date of issue:** 29 August 2018

Version: 1.0

### Designation of product, preparation and manufacturer

**Trade name:** Bio-Flex® F 2104 (previously V 173919)  
**Use of product:** Biodegradable compound for blown film extrusion. The biobased carbon content (BCC) is > 40 % (calculated). Used in applications such as fruit bags and T-shirt bags.  
**Manufacturer:** FKUR Kunststoff GmbH  
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### Film properties (thickness 25 µm, BUR 2.3)

Tensile modulus MD/TD	530 / 150	[MPa]	ISO 527-5
Tensile strength (yield stress) MD/TD	33 / 30	[MPa]	ISO 527-5
Tensile strain at tensile strength MD/TD	130 / 445	[%]	ISO 527-5
Tensile stress at break MD/TD	32 / 29	[MPa]	ISO 527-5
Tensile strain at break MD/TD	130 / 445	[%]	ISO 527-5
Elmendorf tear resistance MD/TD	59 / 29	[N/mm]	ASTM D 1922
Impact strength (Spencer Impact Test)	750	[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)	1.0 - 3.5	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	0.95 - 3.3	[cm³/10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Density	1.178	[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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