

## Technical data sheet

**Product name:** Bio-Flex® FX 1824  
**Date of issue:** 23 March 2017

Version: 1.1

### Designation of product, preparation and manufacturer

**Trade name:** Bio-Flex® FX 1824

**Use of product:** Biodegradable and home compostable polymer compound. Certified as home compostable according to EN 13432 (at ambient temperature) with a maximum thickness of 24 µm. The biobased carbon content (BCC) is 43 % (determined according to ISO 16620). Suitable for

**Manufacturer:** FKUR Kunststoff GmbH  
 Siemensring 79  
 D - 47 877 Willich  
 Phone: + 49 (0) 2154 / 92 51-0  
 Fax: + 49 (0) 2154 / 92 51-51  
 Mail: info@fkur.com  
 Web: www.fkur.com

### Film properties (thickness 30 µm, BUR 2.3)

Tensile modulus MD/TD	130 / 85	[MPa]	ISO 527-3
Tensile strength (yield stress) MD/TD	21 / 16	[MPa]	ISO 527-3
Tensile strain at tensile strength MD/TD	475 / 580	[%]	ISO 527-3
Tensile stress at break MD/TD	20 / 16	[MPa]	ISO 527-3
Tensile strain at break MD/TD	480 / 580	[%]	ISO 527-3
Elmendorf tear resistance MD/TD	140 / 300	[N/mm]	ASTM D 1922
Impact strength (Spencer Impact Test)	160	[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
Melting temperature	> 155	[°C]	ISO 3146-C
Density	1.35	[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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