

Technical data sheet

Product name: Bio-Flex® F 1804
Date of issue: 23 November 2017

Version: 1.2

Designation of product, preparation and manufacturer

Trade name: Bio-Flex® F 1804

Use of product: Biodegradable and home compostable polymer compound suitable for blown film applications. Certified as home compostable according to EN 13432 (at ambient temperature) with a maximum thickness of 27 µm. The biobased carbon content (BCC) is 43 % (determined according to ISO 16620). Use in applications such as fruit bags.

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Film properties (thickness 23 µm, BUR 2.3)

Tensile modulus MD/TD	240 / 100	[MPa]	ISO 527-3
Tensile strength (yield stress) MD/TD	33 / 36	[MPa]	ISO 527-3
Tensile strain at tensile strength MD/TD	260 / 640	[%]	ISO 527-3
Tensile stress at break MD/TD	33 / 35	[MPa]	ISO 527-3
Tensile strain at break MD/TD	275 / 640	[%]	ISO 527-3
Elmendorf tear resistance MD/TD	170 / 60	[N/mm]	ASTM D 1922
Impact strength (Spencer Impact Test)	550	[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 - 3.0	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	1.1 - 3.2	[cm³/10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Density	1.21	[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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