

Technical data sheet

Product name: Bio-Flex® FX 1120 (previously V 141105)
Date of issue: 22 February 2016

Version: 1.0

Designation of product, preparation and manufacturer

Trade name: Bio-Flex® FX 1120 (previously V 141105)
Use of product: Biodegradable and compostable compound for blown film extrusion. Certified (according to EN 13432) with a maximum thickness of 112 µm. The biobased carbon content (BCC) is 50% (determined according to ASTM D6866). Used in applications such as waste bags or T-Shirt bags.
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	645 / 415	[MPa]	ISO 527-5
Tensile strength (yield stress) MD/TD	26 / 18	[MPa]	ISO 527-5
Tensile strain at tensile strength MD/TD	250 / 355	[%]	ISO 527-5
Tensile stress at break MD/TD	25 / 18	[MPa]	ISO 527-5
Tensile strain at break MD/TD	250 / 355	[%]	ISO 527-5
Elmendorf tear resistance MD/TD	12.5 / 73	[N/mm]	ASTM D 1922
Impact strength (Spencer Impact Test)	240	[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 - 4.5	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	1.5 - 3.8	[cm³/10 min]	ISO 1133
Melting temperature	145 - 160	[°C]	ISO 3146-C
Density	1.34	[g/cm³]	ISO 1183

Legal notice

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.

Neither FKUR Kunststoff GmbH nor its marketing affiliates shall be responsible for the use of this information or of any product, method or equipment mentioned. Customers must undertake their own determination of this product's suitability and completeness for their own use, for the protection of the environment, for the health and safety of their employees and purchasers of their products. No warranty is made of the merchantability or fitness of any product, and nothing herein waives any of the seller's conditions of sale.

The current version of General Conditions of Sale of FKUR Kunststoff GmbH is valid.

The brands „FKuR – Plastics made by nature“ and “BIO-FLEX” are registered trademarks of FKUR Kunststoff GmbH, according to the international `Nice-Classifications' (NCL9), no. 01, 02 and 17.