

## Technical data sheet

**Product name:**

**Bio-Flex<sup>®</sup> F 1130**

Date of issue: 17.02.2010

(prev. Bio-Flex<sup>®</sup> 219 F)

Version: 3.1

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### 1. Designation of product, preparation and manufacturer

1.1 Trade name:	Bio-Flex <sup>®</sup> F 1130 (prev. Bio-Flex <sup>®</sup> 219 F)
1.2 Use of product:	Biodegradable compound for film extrusion
1.3 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

### 2. Mechanical properties

Tensile modulus of elasticity	390	[MPa]	ISO 527
Tensile strength	17	[MPa]	ISO 527
Tensile strain at tensile strength	> 300	[%]	ISO 527
Tensile stress at break	no break	[MPa]	ISO 527
Tensile strain at break	no break	[%]	ISO 527
Flexural modulus	370	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	9	[MPa]	ISO 178
Notched impact strength (Charpy), RT	no break	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eA
Impact strength (Charpy), RT	no break	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eU
Density	1.40	[g/cm <sup>3</sup> ]	ISO 1183
Bulk density	830	[kg/m <sup>3</sup> ]	ISO 60

### 3. Thermal properties

Melt temperature	> 155	[°C]	ISO 3146-C
Vicat A softening temperature	89	[°C]	ISO 306
Heat distortion temperature HDT B	n/a	[°C]	ISO 75
Melt volume rate (190 °C/2.16 kg)	1.5 - 3.5	[cm <sup>3</sup> /10 min]	ISO 1133
Melt flow rate (190 °C/2.16 kg)	2 - 4	[g/10 min]	ISO 1133

### 4. Barrier properties (45 µm)

Water Vapour	70	[g/(m <sup>2</sup> •d)]	ISO 15 106-3
Oxygen	850	[cm <sup>3</sup> /(m <sup>2</sup> •d•bar)]	ISO 15 105-2
Nitrogen	160	[cm <sup>3</sup> /(m <sup>2</sup> •d•bar)]	DIN 53380-2

### 5. Legal notice

The values listed have been established on standardized test specimens at standard temperature and humidity conditions. 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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