

## Technical data sheet

**Product name:**

**Bio-Flex<sup>®</sup> F 6510**

Date of issue: 17.02.2010

(prev. Bio-Flex<sup>®</sup> 682 CF)

Version: 3.0

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

1.1 Trade name:	Bio-Flex <sup>®</sup> F 6510 (prev. Bio-Flex <sup>®</sup> 682 CF)
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	2.600	[MPa]	ISO 527
Tensile strength	47	[MPa]	ISO 527
Tensile strain at tensile strength	4	[%]	ISO 527
Tensile stress at break	23	[MPa]	ISO 527
Tensile strain at break	19	[%]	ISO 527
Flexural modulus	2.650	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	64	[MPa]	ISO 178
Notched impact strength (Charpy), RT	7	[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	1.30	[g/cm <sup>3</sup> ]	ISO 1183
Bulk density	800	[kg/m <sup>3</sup> ]	ISO 60

### 3. Thermal properties

Melt temperature	150 - 170	[°C]	ISO 3146-C
Vicat A softening temperature	60	[°C]	ISO 306
Heat distortion temperature HDT B	n/a	[°C]	ISO 75
Melt volume rate (190 °C/2.16 kg)	2.5 - 4.5	[cm <sup>3</sup> /10 min]	ISO 1133
Melt flow rate (190 °C/2.16 kg)	2.5 - 4.5	[g/10 min]	ISO 1133

### 4. Barrier properties (20 µm)

Water Vapour	130	[g/(m <sup>2</sup> •d)]	ISO 15 106-3
Oxygen	1.060	[cm <sup>3</sup> /(m <sup>2</sup> •d•bar)]	ISO 15 105-2
Nitrogen	150	[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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