

## Technical data sheet

Product name:

**Bio-Flex® S 5630**

Date of issue: 21.10.2010

(prev. Bio-Flex® V 1644)

Version: 1.0

Page 1 / 1

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

1.1 Trade name:	Bio-Flex® S 5630
1.2 Use of product:	Biodegradable compound for thermoforming and injection moulding
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	2160	[MPa]	ISO 527
Tensile strength	32	[MPa]	ISO 527
Tensile strain at tensile strength	6	[%]	ISO 527
Tensile stress at break	29	[MPa]	ISO 527
Tensile strain at break	9	[%]	ISO 527
Flexural modulus	2400	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	46	[MPa]	ISO 178
Notched impact strength (Charpy), RT	3	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eA
Impact strength (Charpy), RT	51	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eU
Density	1.55	[g/cm <sup>3</sup> ]	ISO 1183
Bulk density	895	[kg/m <sup>3</sup> ]	ISO 60

### 3. Thermal properties

Melt temperature	140 - 160	[°C]	ISO 3146-C
Vicat A softening temperature	105	[°C]	ISO 306
Heat distortion temperatur HDT B	68	[°C]	ISO 75
Melt volume rate (190 °C/2.16 kg)	8 - 10	[cm <sup>3</sup> /10 min]	ISO 1133
Melt flow rate (190 °C/2.16 kg)	10 - 12	[g/10 min]	ISO 1133

### 4. 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.

Neither FKuR Kunststoff GmbH nor its marketing affiliates shall be responsible for the use of this information or 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.