

## Technical data sheet

**Product name:** Bio-Flex® S 5630  
**Date of issue:** 11 January 2017

Version: 2.0

### Designation of product, preparation and manufacturer

**Trade name:** Bio-Flex® S 5630  
**Use of product:** Biodegradable compound suitable for thermoforming and injection moulding.  
**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

### Mechanical properties

Modulus of elasticity	2,160	[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	2,400	[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

The values listed have been established on standardized test specimens (DIN EN ISO 3167, type A) at standard temperature and humidity conditions.

### Physical properties

Melt flow rate (190 °C/2.16 kg)	7.0 - 10.0	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	5.5 - 8.5	[cm <sup>3</sup> /10 min]	ISO 1133
Melting temperature	140 - 160	[°C]	ISO 3146-C
Vicat A softening temperature	105	[°C]	ISO 306
Density	1.55	[g/cm <sup>3</sup> ]	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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