

## Technical data sheet

**Product name:** Bio-Flex® A 4100 CL  
**Date of issue:** 11 January 2017

Version: 3.0

### Designation of product, preparation and manufacturer

**Trade name:** Bio-Flex® A 4100 CL

**Use of product:** Biodegradable and compostable compound, certified according EN 13432 with maximum thickness of 140 µm. The biobased carbon content (BCC) is > 85 % (calculated). Suitable for blown films, non-wovens and injection moulding.

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### Mechanical properties

Modulus of elasticity	1,840	[MPa]	ISO 527
Tensile strength	44	[MPa]	ISO 527
Tensile strain at tensile strength	5	[%]	ISO 527
Tensile stress at break	22	[MPa]	ISO 527
Tensile strain at break	12	[%]	ISO 527
Flexural modulus	1,770	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	48	[MPa]	ISO 178
Notched impact strength (Charpy), RT	3	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	44	[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)	6.0 - 8.0	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	5.5 - 7.5	[cm <sup>3</sup> /10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Vicat A softening temperature	44	[°C]	ISO 306
Heat distortion temperature HDT B	40	[°C]	ISO 75
Density	1.24	[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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