

## Technical data sheet

**Product name:** Biograde® C 5509 CL  
**Date of issue:** 02 March 2017

Version: 1.1

### Designation of product, preparation and manufacturer

**Trade name:** Biograde® C 5509 CL  
**Use of product:** Partly biobased polymer compound suitable for transparent injection moulding applications. The biobased carbon content (BCC) is > 60 % (calculated).  
**Manufacturer:** FKUR Kunststoff GmbH  
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### Mechanical properties

Modulus of elasticity	2,320	[MPa]	ISO 527
Tensile strength	48	[MPa]	ISO 527
Tensile strain at tensile strength	13.0	[%]	ISO 527
Tensile stress at break	48	[MPa]	ISO 527
Tensile strain at break	15.5	[%]	ISO 527
Flexural modulus	2,400	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	54	[MPa]	ISO 178
Notched impact strength (Charpy), RT	7.0	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	165	[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 (230 °C/5 kg)	40 - 56	[g/10 min]	ISO 1133
Melting temperature	> 180	[°C]	ISO 3146-C
Vicat A softening temperature	100	[°C]	ISO 306
Heat distortion temperature HDT B	80	[°C]	ISO 75
Density	1.27	[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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