

Technical data sheet

Product name:

Biograde® C 6509 CL

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1. Designation of product, preparation and manufacturer

1.1 Trade name:	Biograde® C 6509 CL
1.2 Use of product:	Biodegradable compound for injection moulding made partially from renewable resources.
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	2695	[MPa]	ISO 527
Tensile strength	62.5	[MPa]	ISO 527
Tensile strain at tensile strength	12.6	[%]	ISO 527
Tensile stress at break	62	[MPa]	ISO 527
Tensile strain at break	12.6	[%]	ISO 527
Flexural modulus	2890	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	69	[MPa]	ISO 178
Notched impact strength (Charpy), RT	5	[kJ/m ²]	ISO 179-1/1 eA
Impact strength (Charpy), RT	no break	[kJ/m ²]	ISO 179-1/1 eU
Shore D hardness	78	[-]	DIN 53505
Density	1.29	[g/cm ³]	ISO 1183
Bulk density	n/a	[kg/m ³]	ISO 60

3. Thermal properties

Melt temperature	180 - 190	°C	ISO 3146-C
Vicat A softening temperature	104	°C	ISO 306
Melt volume rate (230 °C/5 kg)	34 - 37.5	[cm ³ /10 min]	ISO 1133
Melt flow rate (230 °C/5 kg)	38 - 42	[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.

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