

Technical data sheet

Product name: Fibrolon® 3D Wood
Date of issue: 06 March 2017

Version: 1.0

Designation of product, preparation and manufacturer

Trade name: Fibrolon® 3D Wood
Use of product: Biodegradable polymer compound suitable for the production of 3D printing filaments. The biobased carbon content is > 75 % (calculated). Contains wood fibers.
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	2,900	[MPa]	ISO 527
Tensile strength	47	[MPa]	ISO 527
Tensile strain at tensile strength	5	[%]	ISO 527
Tensile stress at break	38	[MPa]	ISO 527
Tensile strain at break	6.5	[%]	ISO 527
Flexural modulus	2,950	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	64	[MPa]	ISO 178
Notched impact strength (Charpy), RT	4.4	[kJ/m ²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	21	[kJ/m ²]	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)	2.5 - 4.5	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	2.2 - 4.0	[cm ³ /10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Density	n/a	[g/cm ³]	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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