

Technical data sheet

Product name:

Fibrolon® V 135002 (trial grade)

Date of issue:

18 December 2014

Version: 1.1

Designation of product, preparation and manufacturer

Trade name: Fibrolon® V 135002 (trial grade)

Use of product: Polymer blend based on poly lactid acid, suitable for the production of 3D printing filaments. Contains wood fibers.

Manufacturer: FKUR Kunststoff GmbH
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Mechanical properties

Modulus of elasticity	3,290	[MPa]	ISO 527
Tensile strength	46.0	[MPa]	ISO 527
Tensile strain at tensile strength	4.8	[%]	ISO 527
Tensile stress at break	42	[MPa]	ISO 527
Tensile strain at break	5.5	[%]	ISO 527
Flexural modulus	3,930	[MPa]	ISO 178
Flexural strain at break	5	[%]	ISO 178
Flexural stress at 3.5 % strain	70	[MPa]	ISO 178
Notched impact strength (Charpy), RT	4.2	[kJ/m ²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	19.0	[kJ/m ²]	ISO 179-1/1 eU
Shore D hardness	n/a	[-]	DIN 53505
Density	1.15	[g/cm ³]	ISO 1183
Bulk density	n/a	[kg/m ³]	ISO 60

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

Thermal properties

Melting temperature	> 155	[°C]	ISO 3146-C
Vicat A softening temperature	n/a	[°C]	ISO 306
Heat distortion temperature HDT B	n/a	[°C]	ISO 75
Melt volume rate (190 °C/2.16 kg)	n/a	[cm ³ /10 min]	ISO 1133
Melt flow rate (190 °C/2.16 kg)	4.0 - 7.5	[g/10 min]	ISO 1133

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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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