

Technical data sheet

Product name: Fibrolon® F 8530
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Version: 3.0

Designation of product, preparation and manufacturer

Trade name: Fibrolon® F 8530
Use of product: Natural fiber reinforced compound based on a PLA blend. The biobased carbon content (BCC) is 74 % (calculated). Suitable for injection moulding.
Manufacturer: FKUR Kunststoff GmbH
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Mechanical properties

Modulus of elasticity	3,800	[MPa]	ISO 527
Tensile strength	34	[MPa]	ISO 527
Tensile strain at tensile strength	3.4	[%]	ISO 527
Tensile stress at break	34	[MPa]	ISO 527
Tensile strain at break	3.8	[%]	ISO 527
Flexural modulus	3,700	[MPa]	ISO 178
Flexural strain at break	3	[%]	ISO 178
Flexural stress at 3.5 % strain	---	[MPa]	ISO 178
Notched impact strength (Charpy), RT	5	[kJ/m ²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	12	[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/5 kg)	7.0 - 9.0	[g/10 min]	ISO 1133
Melt volume rate (190 °C/5 kg)	9.0 - 11.0	[cm ³ /10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Vicat A softening temperature	72	[°C]	ISO 306
Density	1.1	[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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