

Technical data sheet

Product name: Bio-Flex® F 7510 (previously V 153302)
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Designation of product, preparation and manufacturer

Trade name: Bio-Flex® F 7510 (previously V 153302)
Use of product: Biodegradable polymer compound suitable for injection moulding and production of filaments, e.g. for 3D printing. The biobased carbon content (BCC) is > 80 % (calculated).
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Mechanical properties

Modulus of elasticity	3.000	[MPa]	ISO 527
Tensile strength	55	[MPa]	ISO 527
Tensile strain at tensile strength	5,3	[%]	ISO 527
Tensile stress at break	20,9	[MPa]	ISO 527
Tensile strain at break	16,3	[%]	ISO 527
Flexural modulus	3.075	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	73	[MPa]	ISO 178
Notched impact strength (Charpy), RT	4,2	[kJ/m²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	64,5	[kJ/m²]	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)	2.0 - 4.0	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	n/a	[cm³/10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Density	1.25	[g/cm³]	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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