

Technical data sheet

Product name: Bio-Flex® S 5630 WH
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Version: 1.0

Designation of product, preparation and manufacturer

Trade name: Bio-Flex® S 5630 WH
Use of product: Biodegradable compound suitable for thermoforming and injection moulding. The biobased carbon content (BCC) is > 60 % (calculated).
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Mechanical properties

Modulus of elasticity	2,160	[MPa]	ISO 527
Tensile strength	32	[MPa]	ISO 527
Tensile strain at tensile strength	6	[%]	ISO 527
Tensile stress at break	29	[MPa]	ISO 527
Tensile strain at break	9	[%]	ISO 527
Flexural modulus	2,400	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	46	[MPa]	ISO 178
Notched impact strength (Charpy), RT	3	[kJ/m²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	51	[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)	6.5 - 10.0	[g/10 min]	ISO 1133
Melting temperature	140 - 160	[°C]	ISO 3146-C
Vicat A softening temperature	105	[°C]	ISO 306
Density	1.55	[g/cm³]	ISO 1183
Shrinkage (Lengthwise / Crosswise)	0.49 / 0.49	[%]	ISO 294-4

Legal notice

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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