

Technical data sheet

Product name: Bio-Flex® A 4100 CL

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1. Designation of product, preparation and manufacturer

1.1 Trade name: Bio-Flex[®] A 4100 CL

1.2 Use of product: Biodegradable compound for film extrusion

1.3 Manufacturer: FKuR Kunststoff GmbH

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2. Mechanical properties			
Tensile modulus of elasticity Tensile strength Tensile strain at tensile strength Tensile stress at break Tensile strain at break	1,840	[MPa]	ISO 527
	44	[MPa]	ISO 527
	5	[%]	ISO 527
	22	[MPa]	ISO 527
	12	[%]	ISO 527
Flexural modulus Flexural strain at break Flexural stress at 3.5 % strain	1,770	[MPa]	ISO 178
	no break	[%]	ISO 178
	48	[MPa]	ISO 178
Notched impact strength (Charpy), RT Impact strength (Charpy), RT	3	[kJ/m²]	ISO 179-1/1 eA
	44	[kJ/m²]	ISO 179-1/1 eU
Density	1.24	[g/cm³]	ISO 1183
Bulk density	820	[kg/m³]	ISO 60
3. Thermal properties			
Melt temperature Vicat A softening temperature Heat distortion temperature HDT B	> 155 44 40	[°C] [°C]	ISO 3146-C ISO 306 ISO 75
Melt volume rate (190 °C/2.16 kg) Melt flow rate (190 °C/2.16 kg)	5.5 - 9.0	[cm³/10 min]	ISO 1133
	6.0 - 10.0	[g/10 min]	ISO 1133
4. Barrier properties (20 µm)			
Water Vapour	170	[g/(m²•d)]	ISO 15 106-3
Oxygen	130	[cm³/(m²•d•bar)]	ISO 15 105-2
Nitrogen (25 µm film)	65	[cm³/(m²•d•bar)]	DIN 53380-2

5. Legal notice

The values listed have been established on standardized test specimens at standard temperature and humidity conditions. 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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