

Technical data sheet

Product name: Terralene® LL 1101
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1. Designation of product, preparation and manufacturer

1.1 Trade name: Terralene® LL 1101

1.2 Description: Linear low density polyethylene, butene copolymer, blended with high-density polyethylene, contains processing additives. Suitable for blown film applications.

1.3 Manufacturer: FKUR Kunststoff GmbH
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2. Mechanical properties

Tensile modulus of elasticity	330	[MPa]	ISO 527
Tensile strength	11	[MPa]	ISO 527
Tensile strain at tensile strength	23	[%]	ISO 527
Tensile stress at break	---	[MPa]	ISO 527
Tensile strain at break	> 300	[%]	ISO 527
Flexural modulus	n/a	[MPa]	ISO 178
Flexural strain at break	n/a	[%]	ISO 178
Flexural stress at 3.5 % strain	n/a	[MPa]	ISO 178
Density	0.92	[g/cm ³]	ISO 1183
Bulk density	n/a	[kg/m ³]	ISO 60

3. Thermal properties

Melt temperature	130 - 145	[°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)	0.9 - 1.1	[cm ³ /10 min]	ISO 1133
Melt flow rate (190 °C/2.16 kg)	0.7 - 0.85	[g/10 min]	ISO 1133

4. Film properties (BUR 2.4; 20 µm)

Tensile modulus MD / TD	290 / 310	[MPa]	ISO 527-5
Tensile strength (yield stress) MD / TD	37 / 32	[MPa]	ISO 527-5
Elongation at yield stress MD / TD	675 / 685	[%]	ISO 527-5
Breaking stress MD / TD	36 / 31	[MPa]	ISO 527-5
Elongation at break MD / TD	675 / 685	[%]	ISO 527-5
Tear propagation resistance (Elmendorf) MD / TD	50 / 150	[N/mm]	ISO 6383-2
Spencer Impact	130	[N/mm]	ASTM D3420

MD = machine direction; TD = transversal direction

5. Legal notice

Biobased Carbon Content (BCC)	90	[%]	ASTM D6866
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