

Technical data sheet

Product name: Terralene® LL 1712
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Version: 2.1

Designation of product, preparation and manufacturer

Trade name: Terralene® LL 1712

Use of product: Biobased linear low density polyethylene, butene copolymer, containing mineral fillers. The biobased carbon content (BCC) is > 85 % (calculated). Suitable for profile extrusion of tubes.

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Mechanical properties

Modulus of elasticity	335	[MPa]	ISO 527
Tensile strength	10	[MPa]	ISO 527
Tensile strain at tensile strength	25	[%]	ISO 527
Tensile stress at break	n/a	[MPa]	ISO 527
Tensile strain at break	> 300	[%]	ISO 527
Flexural modulus	310	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	6.8	[MPa]	ISO 178
Notched impact strength (Charpy), RT	59	[kJ/m ²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	no break	[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/2.16 kg)	1.0 - 1.8	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	1.2 - 2.1	[cm ³ /10 min]	ISO 1133
Melting temperature	130 - 145	[°C]	ISO 3146-C
Density	1.01	[g/cm ³]	ISO 1183

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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