

Technical data sheet

Product name: Terralene® HD 4527
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Version: 2.1

Designation of product, preparation and manufacturer

Trade name: Terralene® HD 4527
Use of product: Biobased high density polyethylene for injection moulding applications. Contains mineral fillers. The biobased carbon content (BCC) is 95% (calculated).
Manufacturer: FKUR Kunststoff GmbH
Siemensring 79
D - 47 877 Willich
Phone: + 49 (0) 2154 / 92 51-0
Fax: + 49 (0) 2154 / 92 51-51
Mail: info@fkur.com
Web: www.fkur.com

Mechanical properties

Modulus of elasticity	1,845	[MPa]	ISO 527
Tensile strength	26	[MPa]	ISO 527
Tensile strain at tensile strength	7.5	[%]	ISO 527
Tensile stress at break	24	[MPa]	ISO 527
Tensile strain at break	16	[%]	ISO 527
Flexural modulus	1,745	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	25	[MPa]	ISO 178
Notched impact strength (Charpy), RT	2.2	[kJ/m ²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	36	[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)	13 - 15	[g/10 min]	ISO 1133
Melting temperature	130 - 140	[°C]	ISO 3146-C
Density	1.07	[g/cm ³]	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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