

Technical data sheet

Product name: Terralene® WF 5525

Date of issue: May 2nd 2013

Version: 1.2
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1. Designation of product, preparation and manufacturer

1.1 Trade name:	Terralene® WF 5525
1.2 Description:	High density polyethylene with narrow molar mass distribution, containing a medium amount of wood fibers and functional additives. Recommended for the production of injection moulded articles.
1.3 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

2. Mechanical properties

Tensile modulus of elasticity	1,915	[MPa]	ISO 527
Tensile strength	25	[MPa]	ISO 527
Tensile strain at tensile strength	6.0	[%]	ISO 527
Tensile stress at break	24.0	[MPa]	ISO 527
Tensile strain at break	7.0	[%]	ISO 527
Flexural modulus	1,950	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	29	[MPa]	ISO 178
Notched impact strength (Charpy), RT	3.6	[kJ/m ²]	ISO 179-1/1 eA
Impact strength (Charpy), RT	11.5	[kJ/m ²]	ISO 179-1/1 eU
Density ¹⁾	1.045	[g/cm ³]	ISO 1183
Bulk density	n/a	[kg/m ³]	ISO 60

¹⁾ The density was measured on injection moulded specimen

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)	n/a	[cm ³ /10 min]	ISO 1133
Melt flow rate (190°C/2.16 kg)	6.0 - 7.5	[g/10 min]	ISO 1133

4. 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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