

Technical datasheet

Product name: Bio-granulate G 4156
Date of issue: 01 January 2021

Version: 1.1

Designation of product, preparation and manufacturer

Trade name: Bio-granulate G 4156

Use of product: Biodegradable polymer compound suitable for injection moulding applications. The biobased carbon content (BCC) is > 70 % (calculated). Bio-granulate G 4156 meets the criteria of the EN 13432 standard and is therefore a certified compostable material. OK Compost certificate Bio-granulate G 4156. Bio-granulate G 4156 may be used in contact with food according to EN 10/2011 and US FDA. Due to the complexity of the underlying legal requirements, we kindly ask you to please contact us regarding your specific application.

Manufacturer: Ruplex B.V.
 Bosmanskamp 22
 4191MV, Geldermalsen
 Phone: + 31 85 10 54 000
 Mail: algemeen@ruplex.com
 Web: www.ruplex.com

Mechanical properties

Modulus of elasticity	2,700	[MPa]	ISO 527
Tensile strength	43	[MPa]	ISO 527
Tensile strain at tensile strength	5	[%]	ISO 527
Tensile stress at break	22	[MPa]	ISO 527
Tensile strain at break	13	[%]	ISO 527
Notched impact strength (Charpy), RT	4	[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)	17.0 - 22.0	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	14.5 - 19.0	[cm ³ /10 min]	ISO 1133
Melting temperature	150 - 170	[°C]	ISO 3146-C
Density	1.29	[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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