

## Technical data sheet

**Product name:** Fibrolon® HP 7823 (previously V 153804)  
**Date of issue:** 23 March 2016

Version: 1.0

### Designation of product, preparation and manufacturer

**Trade name:** Fibrolon® HP 7823 (previously V 153804)  
**Use of product:** Biodegradable polymer compound suitable for the production of 3D printing filament. Containing cork flour. The biobased carbon content (BCC) is > 80 % (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	2.475	[MPa]	ISO 527
Tensile strength	40	[MPa]	ISO 527
Tensile strain at tensile strength	5	[%]	ISO 527
Tensile stress at break	29	[MPa]	ISO 527
Tensile strain at break	11	[%]	ISO 527
Flexural modulus	2.490	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	58	[MPa]	ISO 178
Notched impact strength (Charpy), RT	4	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	36	[kJ/m <sup>2</sup> ]	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)	3.0 - 5.0	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	2.5 - 4.5	[cm <sup>3</sup> /10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Vicat A softening temperature	60	[°C]	ISO 306
Density	1,18	[g/cm <sup>3</sup> ]	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.

Neither FKUR Kunststoff GmbH nor its marketing affiliates shall be responsible for the use of this information or of any product, method or equipment mentioned. Customers must undertake their own determination of this product's suitability and completeness for their own use, for the protection of the environment, for the health and safety of their employees and purchasers of their products. No warranty is made of the merchantability or fitness of any product, and nothing herein waives any of the seller's conditions of sale.

The current version of General Conditions of Sale of FKUR Kunststoff GmbH is valid.

The brands „FKuR – Plastics made by nature“ and “FIBROLON” are registered trademarks of FKUR Kunststoff GmbH, according to the international 'Nice-Classifications' (NCL9), no. 01, 02 and 17.