

# Fibraworld

Our fiberglass. Your solution.

## GRP Pultruded Profiles | Technical Data according to Normative UNI EN 13706

PROPERTY	TEST METHOD	UNIT	PROFILE TYPE	
			Open Shapes	Solid Rods & Bars
Density	ISO 1183	g/cm <sup>3</sup>	1,8 – 1,9	1,9 – 2,1
Tensile Strength (Axial)	ISO 527-4	Mpa	240	650
Tensile Strength (Transverse)	ISO 527-4	Mpa	50	---
Tensile Modulus (Axial)	ISO 527-4	Gpa	23	35
Tensile Modulus (Transverse)	ISO 527-4	Gpa	7	---
Compression Strength (Axial)	ISO 14126	Mpa	240	220
Compression Modulus (Axial)	ISO 14126	Gpa	23	20
Full Bending Flexural Modulus	EN 13706	Gpa	23	---
Flexural Strength (Axial)	ISO 14125	Mpa	240	650
Flexural Strength (Transverse)	ISO 14125	Mpa	100	---
Flexural Modulus (Axial)	ISO 14125	Gpa	20	30
Flexural Modulus (Transverse)	ISO 14125	Gpa	7	---
Interlaminar Shear Strength	ISO 14130	Mpa	25	---
In-Plane Shear Modulus	ISO 15310	Gpa	3	---
Pin-Bearing Strength (Axial)	EN 13706	Mpa	150	---
Pin Bearing Strength (Transverse)	EN 13706	Mpa	70	---
Charpy Impact Strength	ASTM D 256	KJ/m <sup>2</sup>	>150	>200
Barcol Hardness	ASTM D 2583	---	50	50
24h Water Absorption	ASTM 570	% max	0,4	0,4
Thermal Expansion Coefficient	ISO 11359-2	K <sup>-1</sup>	8-9x10 <sup>-6</sup>	6-7x10 <sup>-6</sup>
Thermal Conductivity	UNI 7891	Kcal/m h °C	0,27	0,25
Arc Resistance	ASTM D 495	Sec.	120	140
Dielectric Strength	ASTM D 149	kV/mm	>4	>12
Dielectric Constant	ASTM D 150	At 50 Hz	<5	<8
Surface Insulation Resistance	DIN 53482	Ohm	10 <sup>10</sup> - 10 <sup>13</sup>	---
Loss Factor at 50 Hz	DIN 53483	tg delta	0,03 – 0,04	---
Insulating Class	---	---	F	---

The above mentioned data are referred to standard formulated materials. They cannot be considered as guaranteed characteristics, but are based on our experience and given in good faith.



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