

PULTRUDED COMPOSITE PROFILES

	Glass profile	Carbon profile	Steel	Aluminium	PVC	Wood
Density (kg/m ³)	2 100	1650	7900	2700	1380	520
Flexural strength (MPa)	1 000 – 1 400	1 400 – 2 500	400 – 1 200	180	44	150
Flexural modulus (GPa)	45 – 56	120 – 300	196	70	2,4	10
Tensile strength (MPa)	1 000 – 1 400	1 400	400 – 1 200	180	70	100
Tensile modulus (GPa)	45	140	196	70	2,4	9
Thermal conductivity (W/m.K)	0,5	1,4	47	209	0,24	0,47
Coefficient of linear thermal expansion (1/K)	10 ⁻⁵	-0,2.10 ⁻⁶	10 ⁻⁵	2,3.10 ⁻⁵	3,7.10 ⁻⁵	0,2.10 ⁻⁵
Specific heat capacity (J/kg.K)	1 880	950	461	921	1 100	1 700

Glass and carbon fiber composite profiles are manufactured by conventional pultrusion or pullwinding technique from various types of resin according to customer requests.

Profiles are UV stabilized, water and chemical resistant.

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5M s.r.o. tel.: +420 572 433 711
 Na Záhonech 1177 fax: +420 572 433 700
 686 04 Kunovice e-mail: 5M@5M.cz
 Czech Republic www.5M.cz

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