

Bar

PROFILES

Flat

BASE	HEIGHT	BASE	HEIGHT
5	3	20	15
6	5	20	5
7	3	20	6
8	3	20	10
9	2,5	24	2,5
10	5	26	26
13	8	30	20
15	1,25	30	10
15	1,5	30	4,5
15	3	31	6
15	4,5	40	40
15	5		
16	5		
17	12		
18	2		



Profiles in Stock **
 Profiles made to order
 Nominal dimension: mm

TRIGLASS® BARS and FLATS

These composite profiles represent part of Top Glass standard shapes range and some of them are in stock ready for immediate delivery.

In case of specific needs in terms of mechanical, chemical and fire performances, a wide combination of resins, colors and reinforcements are available for a customized production.

Other tools can be designed and made by Top Glass to produce any other dimension.

Top Glass is certified ISO 9001.

BASE	HEIGHT	BASE	HEIGHT
25	3	310	3
28	4	310	3,5
40	8	310	4
40	9	310	5,5
40	10	310	7
41	7	1250	3
50	6	1250	5
50	4	1250	6
60	3,4	1250	7
70	3	1250	8
87	3	1250	9
100	1,2	1250	10
100	1,4	1250	12
100	2,5	1250	13
150	10	1250	16
295	2	1250	17
310	2,5	1250	20

NOTES:

** STOCK LENGTH: 4.000 mm
 STOCK COLOR: WHITE

MEAN PHYSICAL-MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	PROFILES MEAN VALUE BARS	PROFILES MEAN VALUE FLAT PROFILES
SPECIFIC WEIGHT	ASTM D792	g/cm ³	1.9	1,75 ÷ 1,9
DIELECTRIC STRENGTH	ASTM D149	kV/mm	3	5 ÷ 10
WATER ABSORPTION	ISO 62	%	0,2	0,4
SURFACE RESISTIVITY	EN 61340	Ω	10 ¹²	10 ¹²
LOSS FACTOR AT 50 Hz (Tg δ)	ASTM D7028	-----	0,25	0,25
THERMAL CLASS	-----	CLASS	F	F
LONGITUDINAL THERMAL EXPANSION COEFFICIENT	ISO 11359 - 2	K ⁻¹	7.5x10 ⁻⁶	9 ÷ 11x10 ⁻⁶
THERMAL CONDUCTIVITY	EN 12667 EN 12664	W/mK	0,3	0,3
LONGITUDINAL FLEXURAL STRENGTH	ASTM D790	MPa	700	200 ÷ 450
LONGITUDINAL FLEXURAL MODULUS	ASTM D790	GPa	33	10 ÷ 18
LONGITUDINAL COMPRESSION STRENGTH	ASTM D695	MPa	300	120 ÷ 250
LONGITUDINAL COMPRESSION MODULUS	ASTM D695	GPa	23	12 ÷ 18
FIRE REACTION	UL 94	CLASS	HB	HB
SHEAR STRENGTH	ASTM D4475	MPa	30	30

VALUES RELATED TO GLASS REINFORCED STANDARD POLYESTER PROFILES

Average tolerance on mechanical properties referred to longitudinal direction: ± 10%.

To the best of our knowledge, the data contained in this publication is accurate. However, Top Glass does not assume liability for how the data is used.

NOTES:

- MECHANICAL RANGE IN FUNCTION OF REINFORCEMENT LAYOUT
- FLAT OVER 6 mm THICKNESS POSSIBLE WITH GPO3 FORMULATION
- 1250 mm FLAT PROFILES SUITABLE OF BEING FORMULATED IN VINYLESTER, EPOXY, CLASS H OR UL 94 V0 FIRE REACTION ONLY AFTER SPECIFIC TECHNICAL EVALUATION

