PRODUCT SHEET

TUBE TRIGLASS®

All dimensions are realizable upon order, with ample customization possibilities regarding reinforcements, resins, colors and finishes, based on minimum lots varying according to the required profile.

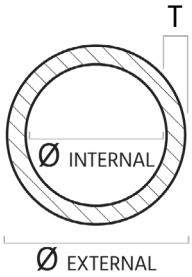
(S) Dimensions currently available in stock are indicated in red, subject to prior sale.

(P) Dimensions produced using PULLWINDING technology are indicated in green

Nominal dimensions: mm

Ø ex	Ø in	T	i
15	12	1,5	S
18	14	2	
20	15	2,5	
22	17	2,5	S
24,3	20,3	2	S
26	16,5	4,75	
26	19	3,5	S
28,4	23	2,7	
28,4	24,4	2	S
30	24	3	
30	25	2,5	
30	26	2	
31	27	2	
32,5	20,3	6,1	
32,5	25	3,75	
32,5	26	3,25	P
32,5	28,5	2	S
36,6	32,6	2	S
40	20	10	
40	32,6	3,7	
40	33,2	3,4	P
40	35	2,5	S
40,7	36,7	2	
41,7	35	3,35	
44,1	36	4,05	
44,1	40	2,05	
44,8	40,8	2	
45,5	40	2,75	
48,9	44,9	2	
50	34	8	
50	40	5	
50	42	4	

Ø ex	Ø in	T	i
50	45	2,5	
50,6	46	2,3	P
51	44	3,5	P
51	47	2	
60	40	10	
60	44	8	
60	48	6	
60	50	5	
60	52	4	
60	54	3	
60	55	2,5	
60	56	2	
76	60	8	
76	70	3	
80	74	3	
88	79	4,5	
101	96	2,5	
102	91,6	5,2	
108	102	3	
120	110	5	
127	121	3	
135	120	7,5	
160	120	20	
169	149	10	
169	153	8	
180	170	5	
250	240	5	
250	245	2,5	



RAW MATERIALS

Fiberglass
Thermosetting resin

APPLICATIONS

Maintenance of high-voltage power lines
Nautical sector
Industrial sector

IN-STOCK PROFILES

LENGTH:
Length: 6000 mm
COLOR:
White
MATRIX:
Standard Polyester

PRODUCTS

100% Made In Italy

PRODUCT SHEET

TUBE TRIGLASS®

VALUES REFER TO REINFORCED PROFILES WITH FIBREGLASS IN A POLYESTER MATRIX. Mechanical resistance values are to be considered at breaking. Typical tolerance for mechanical properties referred to the longitudinal direction: ±10%. The provided data is accurate. However, Top Glass does not assume any liability as to its use.

ADVANTAGES

Mechanical resistance
Electrical insulation
Lightweight

NOTES

The highest mechanical values refer to profiles with a thickness over 4 mm

It is possible to achieve UL94 V-0 fire resistance, with or without halogenated formulations

Antistatic formulations can be manufactured upon request

Standard profiles with thicknesses greater than 2.5 mm can be formulated to achieve high fire reaction performance and non-toxic smoke emission

Vinylester resin formulation is available for applications requiring enhanced chemical resistance

CERTIFICATIONS

Recyclability certificate FRP200004

MAIN PHYSICAL - MECHANICAL PROPERTIES

PROPERTY	STANDARD	UNIT OF MEASURE	STANDARD TUBES Average values	PULLWINDING TUBES Average values
Specific weight	ASTM D792	g/cm³	1,75 ÷ 1,9	2
Dielectric strength	ASTM D149	kV/mm	3 ÷ 7	6
Water absorption	ISO 62	%	0,4	0,2
Surface electrical resistivity	EN 61340	Ω	10^{12}	10^{12}
Dissipation Factor 50 Hz (tan δ)	ASTM D150	-	0,05	0,05
Thermal class	——	CLASS	F	F
Coefficient of linear thermal expansion	ISO 11359-2	K^{-1}	$8 \div 11 \times 10^{-6}$	$8 \div 11 \times 10^{-6}$
Thermal conductivity	"EN 12667 EN 12664"	W/mK	0,3	0,3
Longitudinal flexural strength	ASTM D790	MPa	300 ÷ 500	500
Longitudinal flexural modulus	EN 13706	GPa	22 ÷ 30	40
Longitudinal tensile strength	ASTM D638	MPa	300 ÷ 500	500
Longitudinal tensile modulus	ASTM D638	GPa	22 ÷ 30	40
Longitudinal compression strength	ASTM D695	MPa	180 ÷ 300	350
Fire reaction	UL 94	CLASS	HB	HB
Shear strength	ASTM D2344	MPa	30	40