

**Round PROFILES**

DIAMETER	DIAMETER
2,2	16,8
2,5	18
3	19
3,1	20
4	20,7
4,1	22
5	24
5,1	24,7
6	25
7	27,7
8	30
9	32
10	38
11	40
12	45,5
13	50
14	55,4
15	60
15,3	63,3
16	76

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

**STANDARD TRIGLASS® RODS**

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.

NOTES:

\*\* STOCK LENGTH: 2.000 mm  
 STOCK COLOR: NATURAL

## MEAN PHYSICAL-MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	STANDARD PROFILES MEAN VALUE	EPOXY PROFILES MEAN VALUE
SPECIFIC WEIGHT	ASTM D792	g/cm <sup>3</sup>	1,9	2,05
DIELECTRIC STRENGTH	ASTM D149	kV/mm	3	5
WATER ABSORPTION	ISO 62	%	0,15	0,1
SURFACE RESISTIVITY	EN 61340	Ω	10 <sup>12</sup>	10 <sup>12</sup>
LOSS FACTOR AT 50 Hz (Tg δ)	ASTM D7028	-----	0,2	0,15
THERMAL CLASS	-----	CLASS	F	F
LONGITUDINAL THERMAL EXPANSION COEFFICIENT	ISO 11359 - 2	K <sup>-1</sup>	7.5x10 <sup>-6</sup>	7x10 <sup>-6</sup>
THERMAL CONDUCTIVITY	EN 12667 EN 12664	W/mK	0,3	0,3
LONGITUDINAL FLEXURAL STRENGTH	ASTM D790	MPa	700	900
LONGITUDINAL FLEXURAL MODULUS	EN 13706	GPa	33	40
LONGITUDINAL COMPRESSION STRENGTH	ASTM D695	MPa	300	400
LONGITUDINAL COMPRESSION MODULUS	ASTM D695	GPa	23	28
FIRE REACTION	UL 94	CLASS	HB	HB
SHEAR STRENGTH	ASTM D4475	MPa	30	50

### VALUES RELATED TO GLASS REINFORCED STANDARD POLYESTER - EPOXY 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:

- POLYESTERS IS POSSIBLE IN H CLASS TILL 38 mm DIAMETER
- RODS OVER 38 mm DIAMETER ONLY IN EPOXY RESIN
- POLYESTER RODS AVAILABLE ALSO ACCORDING TO FIRE REACTION UL 94 V0 WITH HALOGENS
- EPOXY RODS GIVE HIGHER CREEP AND FATIGUE PERFORMANCES
- FOR CHEMICAL RESISTANCE POSSIBLE TO USE VINYLESTER RESIN FOR RODS TILL 30 mm DIAMETER

