

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
 STANDARD POLYESTER MATRIX

MEAN PHYSICAL-MECHANICAL PROPERTIES

| PROPERTY | TEST METHOD | UNIT | STANDARD PROFILES MEAN VALUE | EPOXY PROFILES MEAN VALUE |
|--|----------------------|-------------------|------------------------------|---------------------------|
| SPECIFIC WEIGHT | ASTM D792 | g/cm ³ | 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 ¹² | 10 ¹² |
| 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 ⁻¹ | 7.5x10 ⁻⁶ | 7x10 ⁻⁶ |
| 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

