

# ECTFE tubing



We can also deliver ECTFE tubing. Dimensions and designs on request possible.

## Key properties of ECTFE

- Excellent barrier properties
- Gamma and e-beam sterilized
- Higher durability
- Working temperature from -75°C to +150/180°C

|            | Property                      | Specification               | Unit              | Value             |
|------------|-------------------------------|-----------------------------|-------------------|-------------------|
| General    | Continuous working temp.      | Maximum                     | °C                | 150               |
|            | Chemical resistance           |                             | -                 | Good              |
|            | Specific gravity              | D 792                       | g/cm <sup>3</sup> | 1.70              |
| Electrical | Dielectric constant           | D 150 at 10 <sup>3</sup> Hz | -                 | 2.5               |
|            |                               | D 150 at 10 <sup>6</sup> Hz | -                 | 2.5               |
|            | Dielectric dissipation factor | D 150 at 10 <sup>3</sup> Hz | -                 | 0.0018            |
|            |                               | D 150 at 10 <sup>6</sup> Hz | -                 | 0.0012            |
|            | Dielectric strength           | D 149                       | kV/mm             | 40                |
|            | Volume resistivity            | D 257                       | Ohm-cm            | >10 <sup>15</sup> |
| Mechanical | Tensile strength              | D 1708, D 638               | Mpa               | 32                |
|            | Elongation                    | D 1708, D 638               | %                 | 200               |
|            | Compressive strength          | D 695                       | Mpa               | 48                |
|            | Impact strength               | D 256 bij +23°C             | J/m               | No break          |
|            | Flexural Modulus              | D 790 bij +23°C             | Mpa               | 1660              |
|            | Tensile Modulus               | D 638                       | Mpa               | 1650              |
|            | Hardness                      | D 2240                      | -                 | 70-80             |
| Thermal    | Melting (gel)point            |                             | °C                | 240               |
|            | Thermal conductivity          | +23°C                       | W/Kg.m            | 0.13              |
|            | HDT                           | DIN 75                      | °C                |                   |
|            | method A                      |                             |                   | 104               |
|            | method B                      |                             |                   | 71                |

\* Actual properties may change due to processing method, compound type, extruded dimensions and other variables. It is the user's responsibility to evaluate and fully test the suitability of the product for their specific application.