



The polyethylene terephthalate semi-finished products that we offer – and from which we also manufacture all finished products – are manufactured from semi-crystalline types in an extrusion process

Ertalyte (PET)

In its molecular structure, polyethylene terephthalate (PET) - a semi-crystalline type plastic, semi-crystalline types have **higher hardness, rigidity and strength with outstanding sliding behaviour and low sliding wear** (compared to POM in damp or dry environments)

Because of its **good creep resistance, low level of moisture absorption and excellent dimensional stability**, the material is ideally suited for **complex parts** with the **highest demands on dimensional stability and surface finish**. For the reasons mentioned above, only the semi-crystalline type is suitable for sliding applications.

The polyethylene terephthalate semi-finished products that we offer – and from which we also manufacture all finished products – are manufactured from semi-crystalline types in an extrusion process



Fields of Application:

1. Bearings and rollers
2. Bushes
3. Cam disks
4. Casing parts
5. Counter components
6. Distribution valves
7. Dynamic seals
8. Friction strips
9. Gearwheels
10. Insulators
11. Medical applications
12. Packaging machinery parts, and many more.

Key Features:

1. Constantly low sliding friction
2. Excellent wear resistance
3. Good adhesion and welding ability
4. Good chemical resistance
5. Good creep resistance
6. High mechanical strength
7. high rigidity and hardness
8. High stability
9. Low moisture absorption (at saturation 0.5 %)
10. low sliding friction and sliding wear
11. Resistant to hydrolysis (up to +70 °C)
12. Suitable for food contact
13. Temperature up to 100°C, 160°C short term
14. Very good creep resistance
15. Very high dimensional stability
16. Very little sliding abrasion

Other products:

- | | |
|-------------------|------------|
| 1. Nylon | 6. HDPE |
| 2. Polypropylene | 7. UHMW-PE |
| 3. Ertalyte (PET) | |
| 4. Acetal (POM) | |
| 5. Vesconite | |

Steelplast CC Est. 2010

Steelplast CC is the leading Supplier of the complete range of German **Quality Engineering Plastic**. Steelplast cc has been established since 2010.

With **over 21 years' experience** in engineering plastics we have been specialists from the very beginning.

Growing with the market, we have organized the company to meet the demands of a modern, globalized economy. **Flexibility, integrity, cooperation** – this is the core of our guidelines.



Contact Us

STEELPLAST CC – Head Office Johannesburg
Cnr Innes & Shorten Roads, Nuffield, Springs, Johannesburg
(T) 011 363 3722 / 23 | (F) 086 725 0725
(E) henkl@steelplast.co.za
(W) www.steelplastsa.com

STEELPLAST CC – Cape Town [West Coast]
10 Garden Street, Hopefield, Western Cape
(T) 022 723 1301 | (F) 086 563 6649
(E) annemarie@steelplast.co.za
(W) www.steelplastsa.com