

1.2 Product group PE 100

Product types

| | |
|---|-------------------|
| Standard stock item | PE 100, PE 100 AR |
| Special types (For further details, please see page 55) | PE 100 RC |

Product properties

- UV-stabilised
- Suitable for tank/vessel construction requiring mandatory test certificates
- High chemical resistance
- Outstanding processing parameters
- High strength and rigidity
- Extremely versatile

Standard stock item

| | PE 100 | PE 100 AR | |
|--------------------------|--|---|--|
| Key | High heat stability, UV-stabilised, creep strength at 50 years, 20 °C, medium water = 10.0 MPa, DIBt-approved for tanks requiring mandatory test certificates, black | High heat stability, with anti-slip surface on one side | |
| Product range: from page | 18 | 22 | |

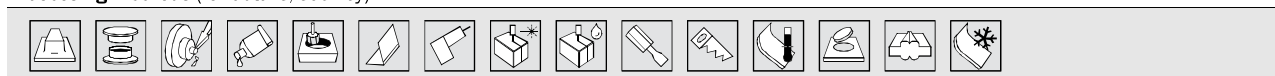
Areas of use

| | | | |
|--|---|---|--|
| | <ul style="list-style-type: none"> ■ Chemical Tank and Equipment Construction ■ Power and Electrical Engineering ■ Mechanical Engineering ■ Transport, Materials Handling and Storage Systems ■ Mobility | <ul style="list-style-type: none"> ■ Chemical Tank and Equipment Construction ■ Power and Electrical Engineering ■ Mechanical Engineering ■ Transport, Materials Handling and Storage Systems ■ Mobility | |
|--|---|---|--|

Material specifications








| | PE 100 | PE 100 AR | |
|--|------------|--|--|
| Density, g/cm ³ , DIN EN ISO 1183 | 0.960 | 0.960 | |
| Yield stress, MPa, DIN EN ISO 527 | 23 | 23 | |
| Tensile modulus of elasticity, MPa, DIN EN ISO 527 | 1100 | 1100 | |
| Notched impact strength, kJ/m ² , DIN EN ISO 179 | 30 | | |
| Shore hardness D, DIN EN ISO 868 | 65 | 65 (relates to the non-anti-slip side) | |
| Temperature range, °C | -50 to +80 | -50 to +80 | |

Processing methods (for details, see key)



PE 100

Product range PE 100

| | | | |
|---|---|---|---|
|  |  |  |  |
| Sheets extruded black 9500 | Sheets pressed black 9500 | Solid Rods black 9500 | Hollow Rods black 9500 |
|  |  |  | |
| Twin-Wall Sheets black 9500 | HKP Corner Elements black 9500 | Welding Rods black 9500 | |

Certificates

- DIN 4102 B2 normal flammability (self-assessment without test certificate)
- Physiological safety in accordance with BfR (German Federal Institute for risk valuation)
- Physiological safety in accordance with EU
- General DIBt approval (German Institute of Building Technology approval for tanks requiring mandatory test certificates)
- Approved for contact with food in accordance with LFGB and EC Regulation 1935/2004

Sheets

PE 100 Sheets, extruded, black 9500

| without protective foil | | | | | | |
|-------------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| Thckn. | 2000 x 1000 mm | | 3000 x 1500 mm | | 4000 x 2000 mm | |
| mm | kg/piece | Order no. | kg/piece | Order no. | kg/piece | Order no. |
| 1.0 | 1.9 | 010015490 | | | | |
| 1.5 | 2.9 | 010015491 | | | | |
| 2.0 | 3.8 | 010015492 | 8.6 | 010015507 | | |
| 3.0 | 5.8 | 010015493 | 13.0 | 010015508 | | |
| 4.0 | 7.7 | 010015494 | 17.3 | 010015509 | | |
| 5.0 | 9.6 | 010015495 | 21.6 | 010015510 | 38.4 | 010015512 |
| 6.0 | 11.5 | 010015496 | 25.9 | 030004265 | 46.1 | 030004263 |
| 8.0 | 15.4 | 010015497 | 34.6 | 030004266 | 61.4 | 030004264 |
| 10.0 | 19.2 | 010015498 | 43.2 | 030003404 | 76.8 | 030004144 |
| 12.0 | 23.0 | 010015499 | 51.8 | 030003405 | 92.2 | 030004145 |
| 15.0 | 28.8 | 010015500 | 64.8 | 030003406 | 115.2 | 030004146 |
| 20.0 | 38.4 | 010015501 | 86.4 | 030003407 | 153.6 | 030004147 |
| 25.0 | 48.0 | 010015502 | 108.0 | 030003408 | 192.0 | 030004148 |
| 30.0 | 57.6 | 010015503 | 129.6 | 030003409 | 230.4 | 030004149 |
| 35.0 | 67.2 | 010015504 | | | | |
| 40.0 | 76.8 | 010015505 | 172.8 | 010015511 | 307.2 | 010014455 |
| 50.0 | 96.0 | 010015506 | | | | |