

## PE100+ QUALITY MATERIALS

Valid until 31<sup>st</sup> December 2024

The PE100+ Association ensures the very highest quality of PE100 products by continuously monitoring three fundamental properties:

- 1) Creep Rupture Strength,
- 2) Stress Crack Resistance and
- 3) Resistance to Rapid Crack Propagation.

Network engineers have identified these to be crucial for increasing the use of PE pipes in gas and water distribution networks.

| Property                                     | Test Method                         | PE 100+ Association requirements |
|--|-------------------------------------|----------------------------------|
| <b>Creep Rupture Strength</b>                | Pressure test at 20°C and 12.0 MPa  | <b>≥ 200 h</b>                   |
| <b>Stress Crack Resistance</b>               | Pipe notch test at 80°C and 9.2 bar | <b>≥ 500 h</b>                   |
| <b>Resistance to Rapid Crack Propagation</b> | S4 Test at 0°C                      | <b>p<sub>c</sub> ≥ 10 bar</b>    |

All tests are performed on 110mm - SDR 11 pipe.

On behalf of the PE100+ Association, [Kiwa Gastec Certification B.V.](#), an independent testing authority in the Netherlands repeats those test rounds together with various independent and internationally respected laboratories every seven to ten months.

### The following products (manufacturers in alphabetical order) met the PE 100+ requirements

| Product                       | Manufacturer                               | Production Country   |
|-------------------------------|--|----------------------|
| BorSafe™ HE3490-LS            | Borealis                                   | Sweden               |
| BorSafe™ HE3490-LS-H          | Borealis                                   | Sweden               |
| BorSafe™ HE3490-LS-HP         | Borealis                                   | Finland              |
| BorSafe™ HE 3490-SLS-H        | Borealis                                   | Finland              |
| BorSafe™ HE3492-LS-H          | Borealis                                   | Sweden               |
| BorSafe™ HE3494-LS-HP         | Borealis                                   | Finland              |
| BorSafe™ HE3490-LS            | Borouge                                    | United Arab Emirates |
| BorSafe™ HE3490-ELS-H         | Borouge                                    | United Arab Emirates |
| BorSafe™ HE3490-LS-H          | Borouge                                    | United Arab Emirates |
| BorSafe™ HE3492-LS-H          | Borouge                                    | United Arab Emirates |
| TAISOX 8001BL                 | Formosa Plastics Corp.                     | Taiwan               |
| XS10B                         | Hanwha TotalEnergies Petrochemical Co. Ltd | Korea                |
| ELTEX® TUB 121 (black)        | INEOS O&P                                  | France               |
| ELTEX® TUB 124 N2025 (blue)   | INEOS O&P                                  | France               |
| ELTEX® TUB 125 N2025 (orange) | INEOS O&P                                  | France               |
| ELTEX® TUB 121 N3000 (black)  | INEOS O&P                                  | Belgium              |

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### For further information please contact:

PE100+ Association, P.O.Box 137, NL-7300 AC Apeldoorn, The Netherlands. Mail to:

[contact@pe100plus.com](mailto:contact@pe100plus.com). The "PE100+ Quality Materials" is also placed on [www.pe100plus.com](http://www.pe100plus.com)

|  |  |                |
|--|--|----------------|
| ELTEX® TUB 121 N6000 (black)               | INEOS O&P                                  | Belgium        |
| ELTEX® TUB 124 N6000 (blue)                | INEOS O&P                                  | France         |
| ELTEX® TUB 125 N6000 (orange)              | INEOS O&P                                  | France         |
| ELTEX® TUB 121 N9000 (black)               | INEOS O&P                                  | Belgium        |
| POLIMAXX P901BK (black)                    | IRPC Public Company Limited                | Thailand       |
| P600 BL (black)                            | Korea Petrochemical IND. Co., LTD          | Korea          |
| Hostalen CRP 100 black                     | LyondellBasell                             | Germany        |
| Hostalen CRP 100 W blue                    | LyondellBasell                             | Germany        |
| Hostalen CRP 100 orange                    | LyondellBasell                             | Germany        |
| Hostalen CRP 100 RESIST CR black           | LyondellBasell                             | Germany        |
| Hostalen CRP 100 RESIST CR orange          | LyondellBasell                             | Germany        |
| Hostalen CRP 100 RESIST CR W blue          | LyondellBasell                             | Germany        |
| Hostalen CRP 100 Black                     | LyondellBasell                             | Saudi Arabia   |
| LITEN® PL 60-006                           | ORLEN Unipetrol RPA s.r.o.                 | Czech Republic |
| HI-ZEX® 7700 MBK (black)                   | Prime Polymer Co., Ltd.                    | Japan          |
| EVL-H®SP5505BK (black)                     | Prime Polymer Co., Ltd.                    | Japan          |
| TUB121N3000B (black)                       | PetroChina Dushanzi Petrochemical Company  | China          |
| SABIC® Vestolen A 6060 R (black)           | SABIC                                      | Germany        |
| SABIC® Vestolen A RELY 5922R-10000 (black) | SABIC                                      | Germany        |
| SABIC® Vestolen A RELY 5924R-10000 (black) | SABIC                                      | Germany        |
| SABIC® P6006 (black)                       | SABIC                                      | Saudi Arabia   |
| SABIC® P6006AD (black)                     | SABIC                                      | Saudi Arabia   |
| SCG HDPE H1000PC (black)                   | SCG Chemicals & Thai Polyethylene, Ltd     | Thailand       |
| SCG HDPE H112PC (black)                    | SCG Chemicals & Thai Polyethylene, Ltd     | Thailand       |
| YGH041T (black)                            | Sinopec Shanghai Petrochemical Company Ltd | China          |
| TASNEE 100 Black                           | TASNEE                                     | Saudi Arabia   |

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Sensitivity: External