

## PE100+ QUALITY MATERIALS

Valid until 31<sup>st</sup> December 2017

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™ HE 3490-LS (black)	Borealis	Sweden
BorSafe™ HE 3490-LS-H (black)	Borealis	Sweden
BorSafe™ HE 3492-LS-H (orange)	Borealis	Sweden
BorSafe™ HE 3494-LS-H (blue)	Borealis	Finland
BorSafe™ HE 3490-LS (black)	Borouge	United Arab Emirates
BorSafe™ HE 3490-LS-H (black)	Borouge	United Arab Emirates
BorSafe™ HE 3492-LS-H (orange)	Borouge	United Arab Emirates
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
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
POLIMAXX P901BK (black)	IRPC Public Company Limited	Thailand

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### For further information please contact:

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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 - SEPC (black)	LyondellBasell	Saudi Arabia
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 6060 R (blue)	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
TASNEE 100 Black	TASNEE	Saudi Arabia
EL-Lene™ H1000PC (Black)	SCG Chemicals & Thai Polyethylene, Ltd	Thailand
YGH041T (black)	Sinopec Shanghai Petrochemical Company Ltd	China

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