

PE100+ QUALITY MATERIALS

Valid until September 2013

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
Creep Rupture Strength	Pressure test at 20°C and 12.0 MPa	≥ 200 h
Stress Crack Resistance	Pipe notch test at 80°C and 9.2 bar	≥ 500 h
Resistance to Rapid Crack Propagation	S4 Test at 0°C	$p_c \geq 10$ bar

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 (in alphabetical order) met the PE 100+ requirements

Product	Manufacturer	Production Country
BorSafe™ HE3490-LS (black)	Borealis AG	Sweden
BorSafe™ HE3494-LS (blue)	Borealis AG	Finland
Borsafe™ HE 3490-LS-H (black)	Borealis AG	Sweden
Borsafe™ HE 3492-LS-H (orange)	Borealis AG	Sweden
Borsafe™ HE 3494-LS-H (blue)	Borealis AG	Finland
BorSafe™ HE3490-LS (black)	Borouge Pte., Ltd.	Abu Dhabi
Borsafe™ HE 3490-LS-H (black)	Borouge Pte., Ltd.	Abu Dhabi
ELTEX® TUB 121 (black)	Ineos O&P	France
ELTEX® TUB 125 N2025 (orange)	Ineos O&P	France
ELTEX® TUB 124 N2025 (blue)	Ineos O&P	France
ELTEX® TUB 121 N3000 (black)	Ineos O&P	Belgium
Hostalen CRP 100 (black)	LyondellBasell	Germany
Hostalen CRP 100 (blue)	LyondellBasell	Germany
Hostalen CRP 100 Resist CR (black)	LyondellBasell	Germany
HI-ZEX® 7700 MBK (black)	Prime Polymer Co., Ltd.	Japan
EVL-H@SP5505BK (black)	Prime Polymer Co., Ltd.	Japan
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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. The "PE100+ Quality Materials" is also placed on www.pe100plus.com

SABIC® Vestolen A 6060 R (black)	SABIC Polyolefine GmbH	Germany
SABIC® Vestolen A 6060 R (blue)	SABIC Polyolefine GmbH	Germany
SABIC® Vestolen A RELY 5922R-10000 (Black)	SABIC Polyolefine GmbH	Germany
TASNEE 100 Black	Saudi Ethylene & Polyethylene Co	Saudi Arabia
EL-LENE H1000PC (black)	SCG Chemicals & Thai Polyethylene, Ltd	Thailand
HDPE XS10H (blue)	Total	Belgium
HDPE XS10B (black)	Total	Belgium
HDPE XS10 Orange YCF (orange)	Total	Belgium

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