

PE100+ QUALITY MATERIALS

PE 100+ ASSOCIATION: PE100+ Quality Materials

Valid until February 2009

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 12.4 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 months.

The following products met the PE 100+ requirements

Product	Manufacturer
Hostalen CRP 100 black	Basell Polyolefine GmbH
Hostalen CRP 100 blue	Basell Polyolefine GmbH
Borstar® HE3490-LS (black)	Borealis AB
Borstar® HE3492-LS(orange)	Borealis AB
Borstar® HE3494-LS (blue)	Borealis AB
Borstar® HE3490-LS (black)	Borouge Pte., Ltd.
ELTEX® TUB 121 (black)	Ineos
ELTEX® TUB 125 N2025 (orange)	Ineos
ELTEX® TUB 124 N2025 (blue)	Ineos
ELTEX® TUB 121 N3000 (black)	Ineos
HI-ZEX® 7700 MBK (black)	Prime Polymer Co., Ltd.
SABIC VESTOLEN® A 6060 R (black)	SABIC Polyolefine GmbH
SABIC VESTOLEN® A 6060 R (blue)	SABIC Polyolefine GmbH
EL-LENE HI1000PC (black)	SCG Chemicals & Thai Polyethylene, Ltd
HDPE XS10H (blue)	Total Petrochemicals
HDPE XS10B (black)	Total Petrochemicals
HDPE XS10 Orange YCF	Total Petrochemicals

For further information please contact:

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The "PE100+ Quality Materials" is also placed on www.pe100plus.net