

The PE 100+ Association Newsletter, March 2009

New list of “PE100+ Quality Materials” published

The PE100+ Association ensures the highest quality of PE100 pipe 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.

On behalf of the PE100+ Association, [Kiwa Gastec Certification B.V.](#), an independent testing authority in the Netherlands is repeating the test rounds together with various independent and internationally accredited test institutes.

The results are published every 7 months in a list of “**PE100+ Quality Materials**”. This is the new, more descriptive term for the former “**Positive List of Materials**”. The PE100+ Association requirements to have a material qualified as “PE100+ Quality Materials” remain unchanged (see below).

Property	Test Method	PE 100+ Association Requirements for PE100+ Quality Materials
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.



The following products met the PE 100+ Association quality requirements:

PE100+ Quality Materials - Valid until October 2009

Product	Manufacturer
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 Polyolefins
ELTEX® TUB 125 N2025 (orange)	Ineos Polyolefins
ELTEX® TUB 124 N2025 (blue)	Ineos Polyolefins
ELTEX® TUB 121 N3000 (black)	Ineos Polyolefins
Hostalen CRP 100 black	LyondellBasell
Hostalen CRP 100 blue	LyondellBasell
HI-ZEX® 7700 MBK (black)	Prime Polymer Co., Ltd.
EVL-H®SP5505BK (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 H1000PC (black)	SCG Chemicals & Thai Polyethylene, Ltd
HDPE XS10H (blue)	Total Petrochemicals
HDPE XS10B (black)	Total Petrochemicals
HDPE XS10 Orange YCF	Total Petrochemicals

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