

## PE100+ Association Newsletter, February 2006

### Main News:

- New “PE100+ Quality Materials” published
- PE100+ Association activities

### 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
<b>Creep Rupture Strength</b>	Pressure test at 20°C and 12.4 MPa	$\geq 200$ h
<b>Stress Crack Resistance</b>	Pipe notch test at 80°C and 9.2 bar	$\geq 500$ h
<b>Resistance to Rapid Crack Propagation</b>	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**

<b>Product</b>	<b>Manufacturer</b>
<i>Hostalen CRP 100 black</i>	Basell Polyolefine GmbH
<i>Hostalen CRP 100 blue</i>	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
HDPE XS10H (blue)	Total Petrochemicals
HDPE XS10B (black)	Total Petrochemicals
HDPE XS10 Orange YCF	Total Petrochemicals

**PE100+ Association activities**

In October 2005 the PE100+ Association participated in 2 events:

- “Le polyéthylène, un matériau de choix pour les réseaux d’adduction d’eau potable” in Lille, France, and
- “Hochschullehrer-Seminar des KRV” in Dresden, Germany.  
University professors were informed and educated on the benefits of high quality PE pressure pipes. The event was perceived to be very useful providing technical background information on polymers they were not familiar with.



### PE100+ Association Event Calendar

Event	Time	Place
PE100+ Association Member Meeting	28.2.2006	Brussels
2nd Central & Eastern Europe Plastic Pipes Market (speaker)	13-14.3.2006	Prague
PE100+ Advisory Board Meeting	30-31.5.2006	Barcelona
PE100+ Association Roadshow in India	June	Delhi
New "PE100+ Quality Materials" published	August 2006	<a href="http://www.pe100plus.net">www.pe100plus.net</a>
Plastics Pipes XIII	2-5.10.2006	Washington DC

In case of questions or comments, please contact:

Dr. Nora Mäkelä-Vaarne  
*Marketing Manager PE100+ Association*

Phone: +32 (0) 15 47 90 14  
Mobile: +32 (0) 479 79 38 05  
Fax: +32 (0) 15 47 98 04

E-mail: [contact@pe100plus.net](mailto:contact@pe100plus.net)  
[www.pe100plus.net](http://www.pe100plus.net)