



The PE100+ Association Newsletter, March 2007

Headings:

- **The PE Pipe Model- New edition**
- **PE100+ Association Annual Member Meeting**
- **New “PE100+ Quality Materials” list has been published**

1. The PE Pipe Model- New edition

The **PE Pipe Model** allows guidance in PE pressure pipe systems; in their design, selection of materials, in construction, operation and maintenance of the systems as well as their environmental aspects. It has been designed and frequently updated by leading industry experts.

Now the structure and contents of the PE Pipe Model has been fully updated- We invite you for a visit at www.pe100plus.net

2. PE100+ Association Annual Member Meeting

At the annual PE100+ Association member meeting on March 20, 2007 in Brussels, pipe business management of the eight member companies praised the achievements of the association in year 2006 and the successful start of implementation of the new direction "Creating trust in high quality PE pipes- Globally".

The PE100+ Association warmly welcomed a new member, Thai Polyethylene Co. Ltd.. “As a new member of PE100+ Association, Thai Polyethylene will be the one who work closely with the association to set up the standard of high quality material of PE100 in Asia. Finally, we hope that the association will be widely accepted as the global association for high quality PE100 material.” said Attawut Kumkrong, Product development manager at Thai Polyethylene.

The association Board was re-elected with a new member:

President and Chairman: Robin Bresser, Borealis
Vice President: Ulrich Schulte, Basell Polyolefins
Secretary: Serge Bettonville, Ineos
Treasurer: Aloysius Hutten, SABIC EuroPetrochemicals
Advisory Committee: Christine Bertrand, Total Petrochemicals
Asia & MEA member: Shinichi Nagano, Prime Polymer
Asia & MEA member: David Walton, Borouge
Asia & MEA member: Attawut Kumkrong, Thai Polyethylene

Furthermore, Antonio Belforte from Ineos will take over from Nora Mäkelä-Vaarne from Borealis as Marketing Manager of the PE100+ Association.

3. New “PE100+ Quality Materials” list has been published

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 ≥ 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 PE100+ Association 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 H1000PC (black) | Thai Polyethylene Co., Ltd |
| HDPE XS10H (blue) | Total Petrochemicals |
| HDPE XS10B (black) | Total Petrochemicals |
| HDPE XS10 Orange YCF | Total Petrochemicals |

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