

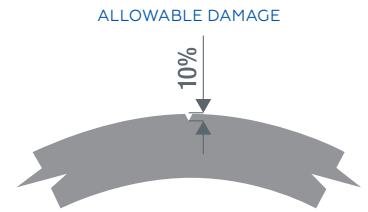
MILLENNIUM

PIPELINE DESIGN

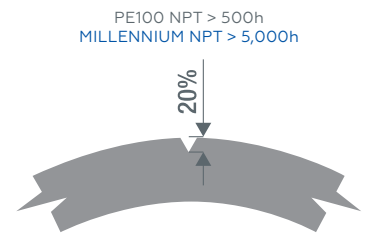
ALLOWANCE FOR EXTERNAL DAMAGE

Included in POP016 is the Notched Pipe Tests (ISO 13479). It is the most common type-test used to demonstrate the tolerance of HSCR pipe.

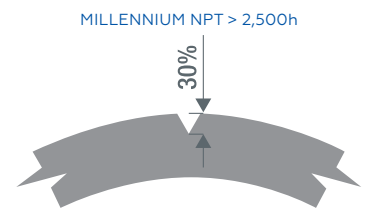
AS/NZS 2033 limits pipe installation surface damage (notch depth) to 10% of a pipe's wall thickness.



Passing ISO 13479 Notched Pipe Test requires a minimum of 500 hours at 80°C with pressure of 920kPa and a 20% pipe wall notch depth. Millennium® pipe achieves >5,000 hours resistance under these conditions, a factor of ten times that required of conventional PE100 pipe.



Millennium® pipe tested at 30% notch depth showed it can sustain ≥2,500 hours.



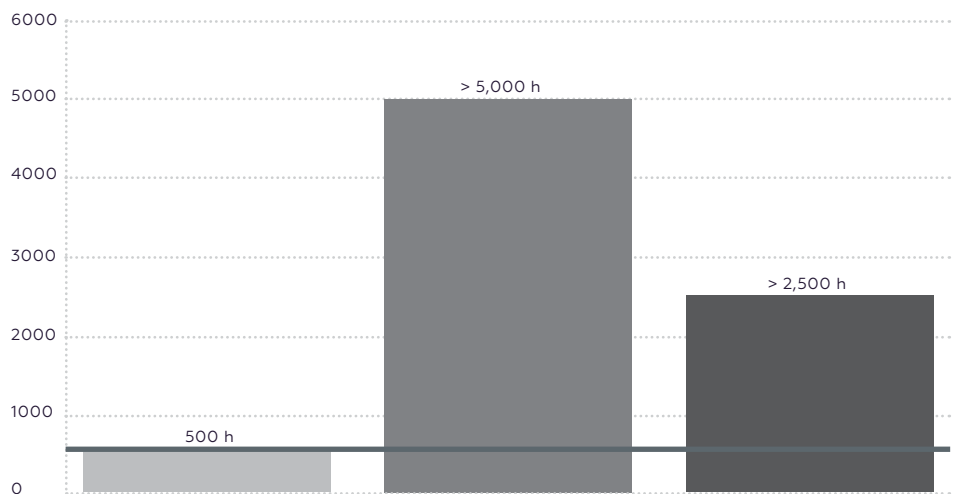
The Millennium® resin testing program demonstrates SCG resistance >10 times that of conventional PE100 and confirms its ability to withstand scratches far deeper than currently permitted under Australian installation Standards.

This fact supports the use of Millennium® where there is a risk of surface damage greater than the 10% wall thickness currently accepted.

NOTCHED PIPE TEST

ISO 13479

- CONVENTIONAL PE100 WITH 20% NOTCH
- MILLENNIUM WITH 20% NOTCH
- MILLENNIUM WITH 30% NOTCH



For more comprehensive information on testing HSCR grade of PE100 material please refer to Qenos' HCR193B technical package available on the Iplex website www.iplex.com.au

The information contained in this document should serve as a guide only and is subject to change without notice. For more information please contact Iplex Pipelines Australia Pty Ltd.

