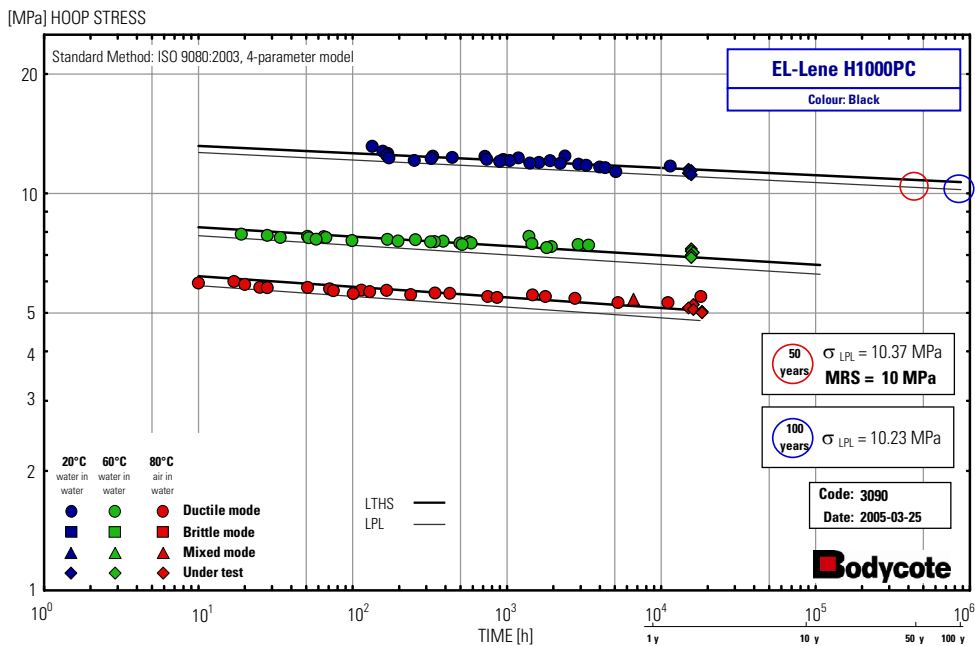


CLIENT: Thai Polyethylene Co., Ltd.

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE GRADE EL-Lene H1000PC



INTRODUCTION

Bodycote Polymer offers accredited testing and evaluation according to ISO 9080, i.e. hydrostatic pressure testing followed by evaluation of the long-term hydrostatic strength and MRS-classification according to ISO 12162.

TASK

The aim was to evaluate the compound according to ISO 9080 in order to obtain a MRS-classification according to ISO 12162 of the PE pipe grade EL-Lene H1000PC from Thai Polyethylene Co., Ltd.

RESULTS OBTAINED

The evaluation was performed in accordance with ISO 9080:2003. The 4-parameter model gave the best fit. More information can be found in Bodycote Report P-08/36.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50.0	10.373	10.822
20	100	10.233	10.685
60	12.2	6.259	6.601
80	2.04	4.781	5.067

CLASSIFICATION

MRS = 10 MPa

CONTACT

Phone +46 155 22 14 76
 Fax +46 155 26 31 25
 Email info@bodycotepolymer.com
 Web www.bodycotepolymer.com, www.bodycote.com