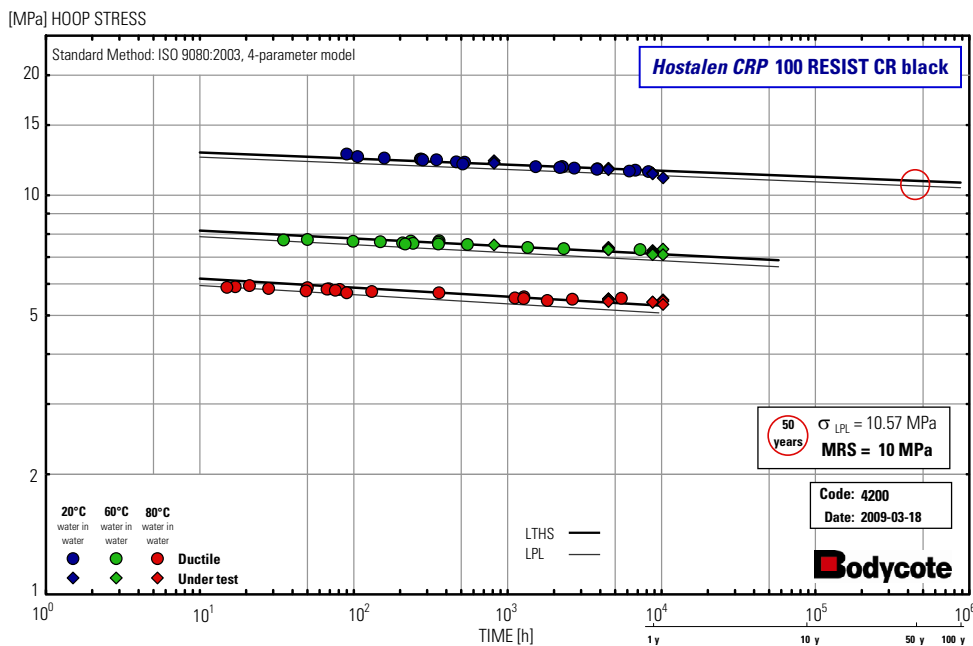


CLIENT: LyondellBasell Industries

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE COMPOUND *Hostalen CRP 100 RESIST CR black*



INTRODUCTION

Bodycote 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 compound *Hostalen CRP 100 RESIST CR black* from LyondellBasell Industries.

RESULTS OBTAINED

The evaluation was performed in accordance with ISO 9080:2003. More information can be found in Bodycote Report P-09/37.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50	10.57	10.88
20	100	10.45	10.77
60	6.58	6.63	6.88
80	1.10	5.08	5.30

CLASSIFICATION

MRS = 10 MPa

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