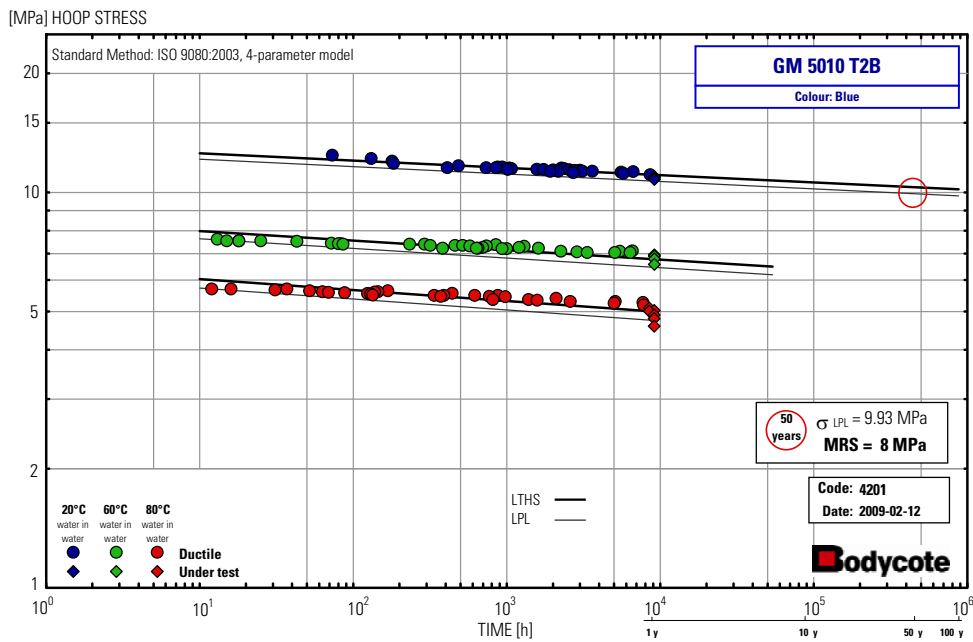


CLIENT: BRASKEM S.A.

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE COMPOUND GM5010T2B FROM BRASKEM S.A.



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 compound GM5010T2B from BRASKEM S.A.

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-09/20.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	100	9.800	10.185
20	50.0	9.934	10.317
60	6.16	6.191	6.493
80	1.03	4.746	5.003

CLASSIFICATION

MRS = 8 MPa

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