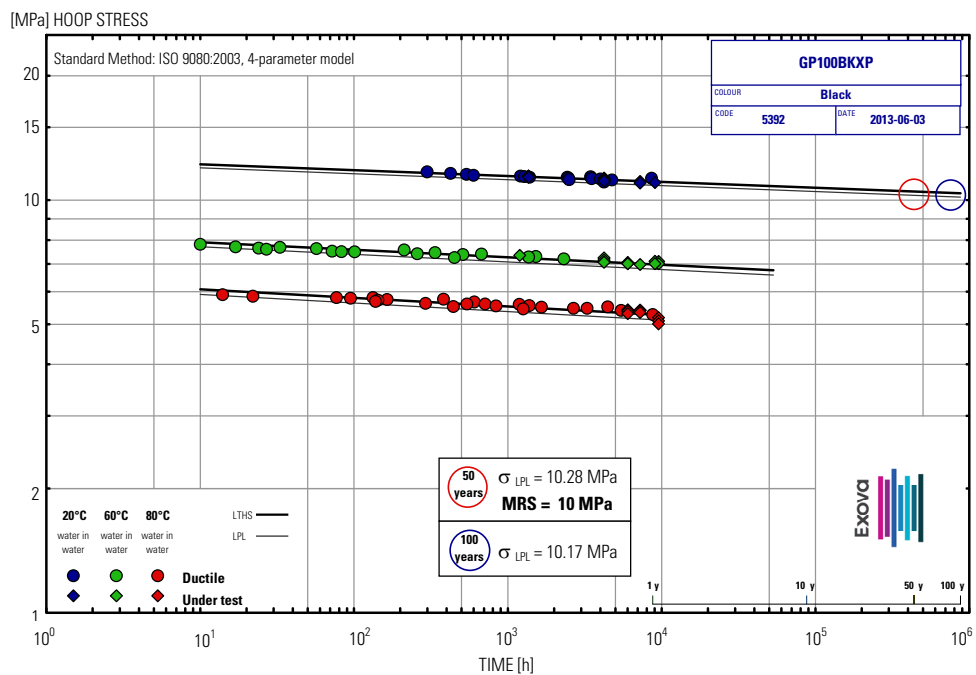


CLIENT: Braskem S.A.

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE GRADE GP100BKXP



INTRODUCTION

Exova 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 GP100BKXP from Braskem S.A.

RESULTS OBTAINED

The evaluation was performed in accordance with ISO 9080:2003. More information can be found in Exova Report P-13/95.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50.0	10.28	10.49
20	100	10.17	10.39
60	6.08	6.58	6.76
80	1.01	5.13	5.28

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0067
 ISO/IEC 17025

CLASSIFICATION

MRS = 10 MPa