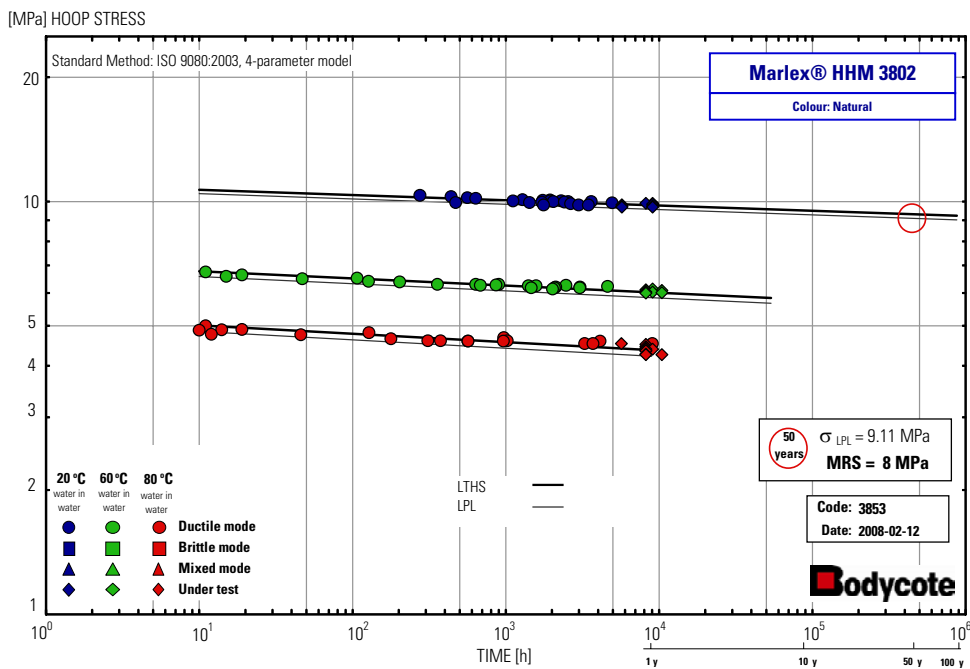


CLIENT: QATAR Chemical Company LTD

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE NATURAL PE PIPE GRADE MARLEX® HHM 3802



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 natural PE pipe grade MARLEX® HHM 3802 from QATAR Chemical Company 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-08/19.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50.0	9.112	9.321
20	100	9.029	9.239
60	6.12	5.672	5.845
80	1.02	4.220	4.367

CLASSIFICATION

MRS = 8 MPa

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