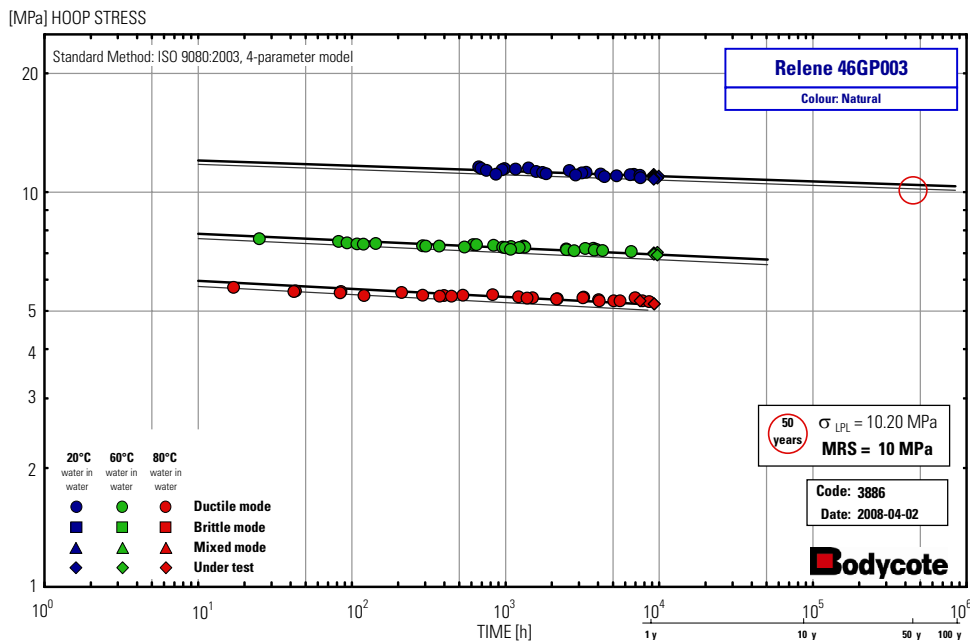


CLIENT: Reliance Industries Ltd.

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE GRADE RELENE 46GP003



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 Relene 46GP003 from Reliance Industries Ltd. The task was completed on 2008-04-02.

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-08/37.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50	10.203	10.449
20	96.5	10.109	10.358
60	5.79	6.549	6.751
80	0.97	5.024	5.197

CLASSIFICATION

MRS = 10 MPa

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