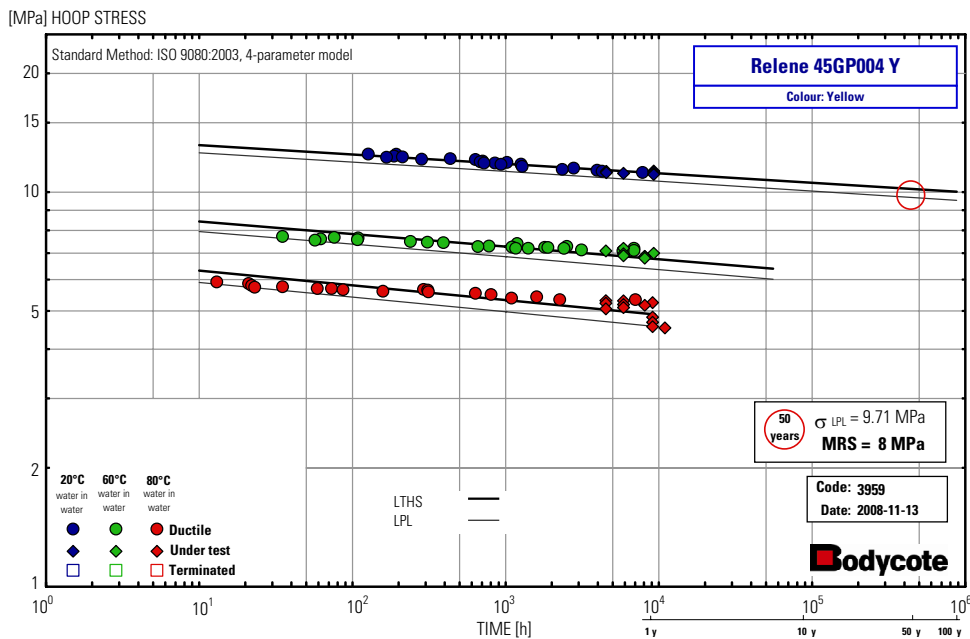


CLIENT: Reliance Industries Limited

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE COMPOUND RELENE 45GP004 Y



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 Relene 45GP004 Y from Reliance Industries Limited.

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-08/148.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50	9.710	10.195
20	100	9.541	10.027
60	6.46	6.011	6.396
80	1.08	4.565	4.901

CLASSIFICATION

MRS = 8 MPa

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