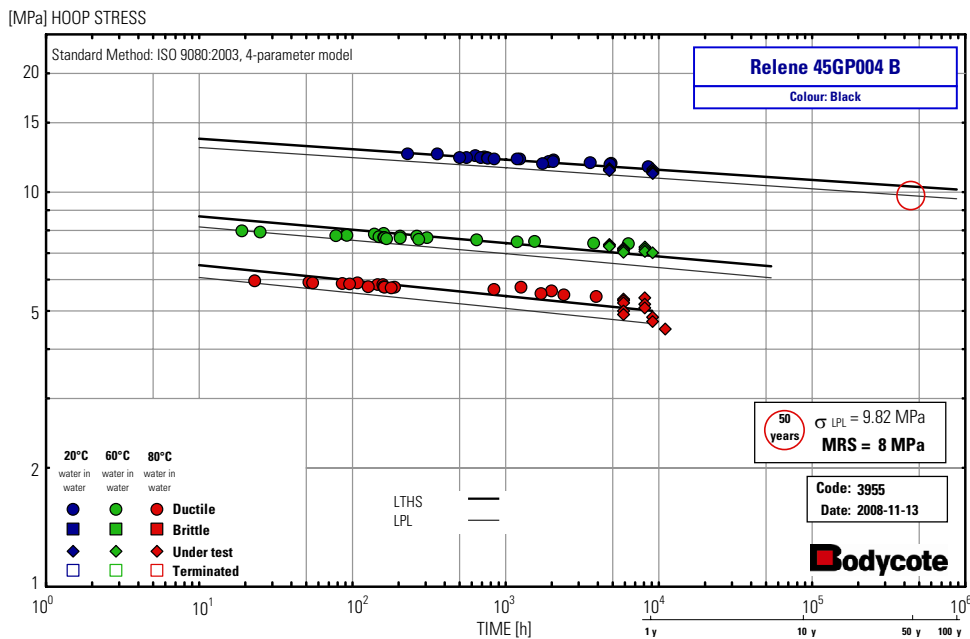


CLIENT: Reliance Industries Limited

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



## 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 B 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-08/147.

### EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	$\sigma_{LPL}$ [MPa]	$\sigma_{LTHS}$ [MPa]
20	50	9.816	10.345
20	100	9.632	10.164
60	6.17	6.074	6.491
80	1.03	4.647	5.003

## CLASSIFICATION

**MRS = 8 MPa**

## CONTACT

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