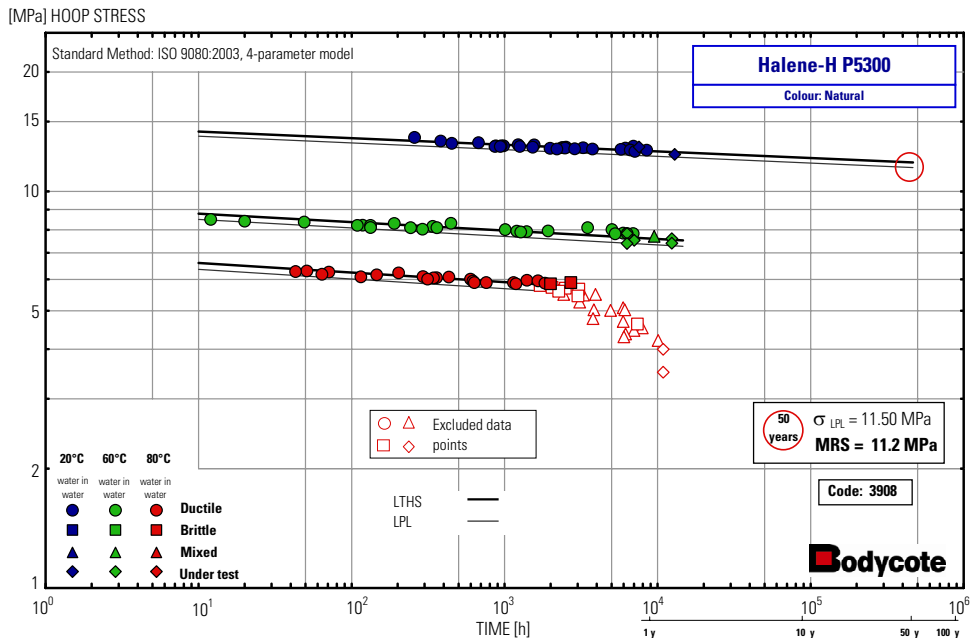


CLIENT: Haldia Petrochemicals Ltd.

# REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF Halene-H P5300 Natural



## INTRODUCTION AND OBJECTIVE

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 PE pipe grade Halene-H P5300 Natural from Haldia Petrochemicals Ltd. according to ISO 9080 in order to obtain a MRS-classification according to ISO 12162.

## 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-08/140.

ISO 9080 4-parameter model

### EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	$\sigma_{LPL}$ [MPa]	$\sigma_{LTHS}$ [MPa]
20	50.0	11.50	11.84
20	53.3	11.49	11.83
60	1.67	7.27	7.52
80	0.28	5.56	5.78

## CLASSIFICATION

**MRS = 11.2 MPa**

## CONTACT

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