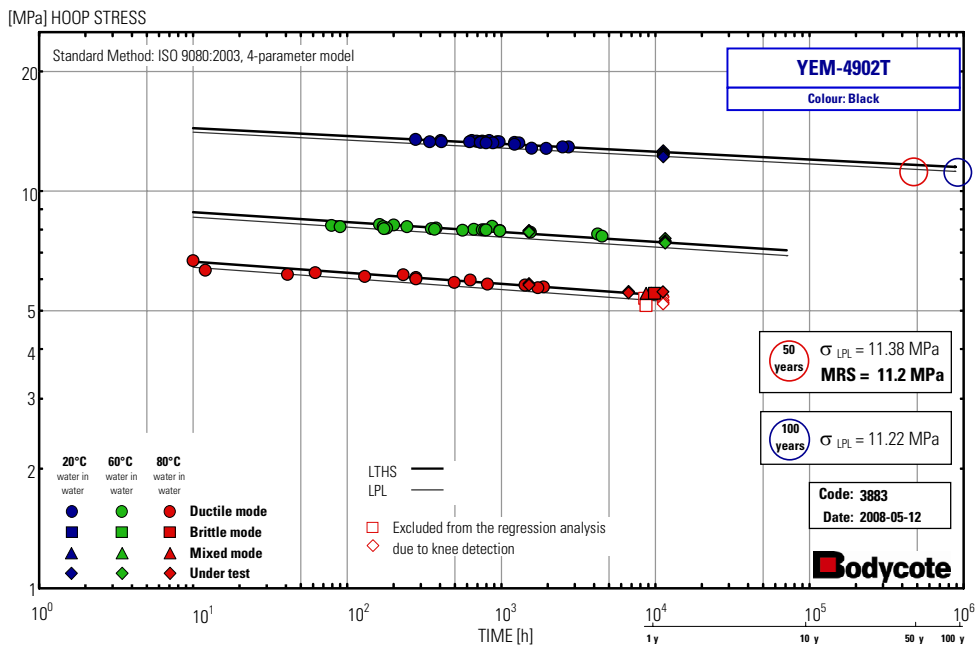


CLIENT: Sinopec Yangzi Petrochemical Co., Ltd.

# REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE GRADE YEM-4902T



## 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 YEM-4902T from Sinopec Yangzi Petrochemical Co., 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-08/82.

### EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	$\sigma_{LPL}$ [MPa]	$\sigma_{LTHS}$ [MPa]
20	50.0	11.376	11.667
20	100	11.215	11.508
60	8.12	6.883	7.097
80	1.35	5.275	5.454

## CLASSIFICATION

**MRS = 11.2 MPa**

## CONTACT

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