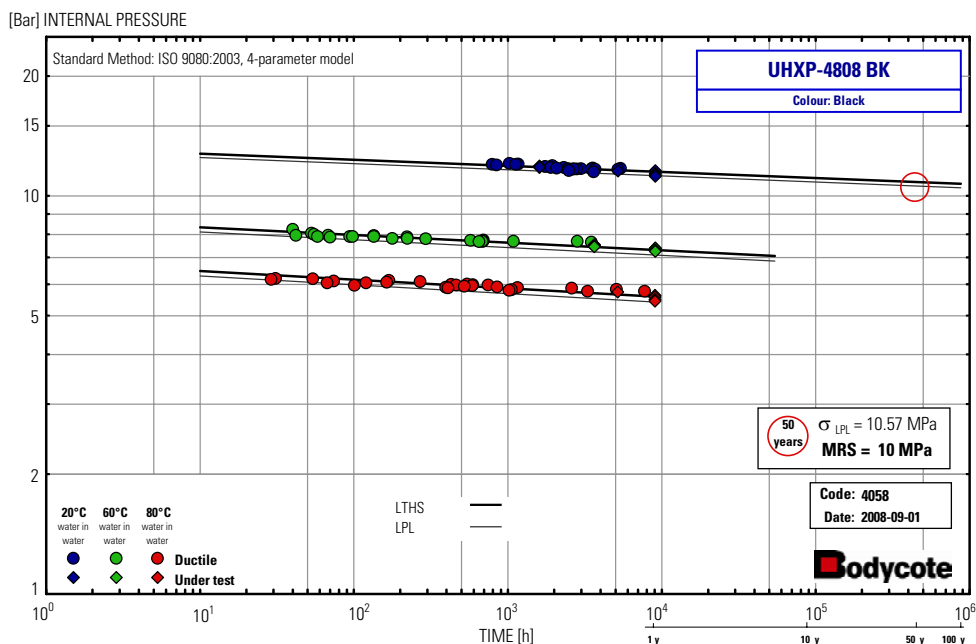


CLIENT: UNIVATION Technologies

# REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE GRADE UHXP-4808 BK



## 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 UHXP-4808 BK from UNIVATION Technologies.

## 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-08/104.

### EXTRAPOLATED STRENGTH VALUES

| Temp [°C] | Time [Yrs] | $\sigma_{LPL}$ [MPa] | $\sigma_{LTHS}$ [MPa] |
|-----------|------------|----------------------|-----------------------|
| 20        | 50.0       | 10.574               | 10.827                |
| 20        | 100        | 10.454               | 10.710                |
| 60        | 6.01       | 6.846                | 7.049                 |
| 80        | 1.00       | 5.402                | 5.574                 |

## CLASSIFICATION

**MRS = 10 MPa**

## CONTACT

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