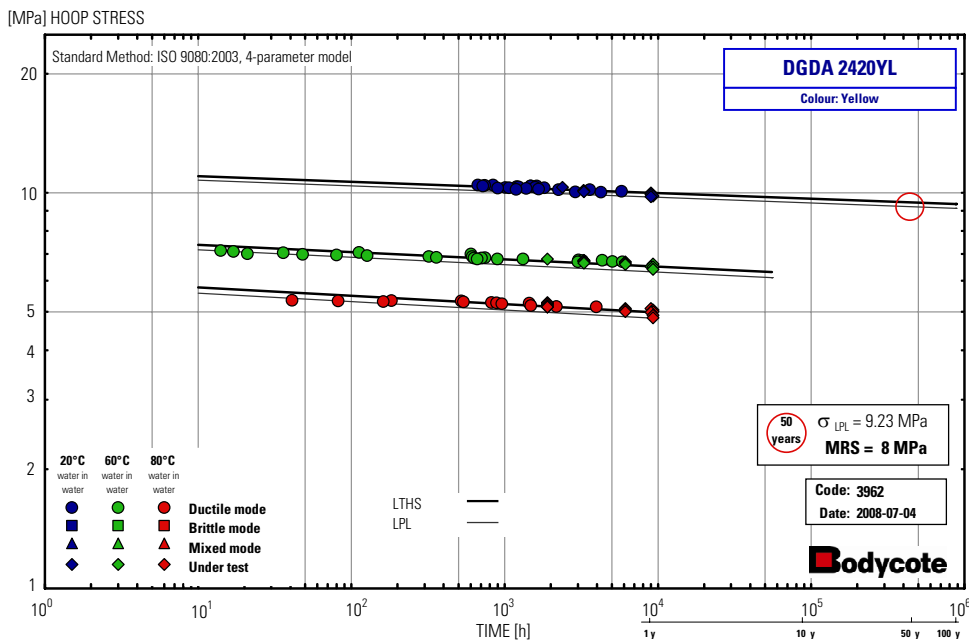


CLIENT: DOW Chemical Company

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE GRADE DGDA 2420YL



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 DGDA 2420YL from DOW Chemical Company.

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-08/85.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50.0	9.23	9.47
20	100	9.13	9.38
60	6.32	6.10	6.30
80	1.05	4.82	4.99

CLASSIFICATION

MRS = 8 MPa

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