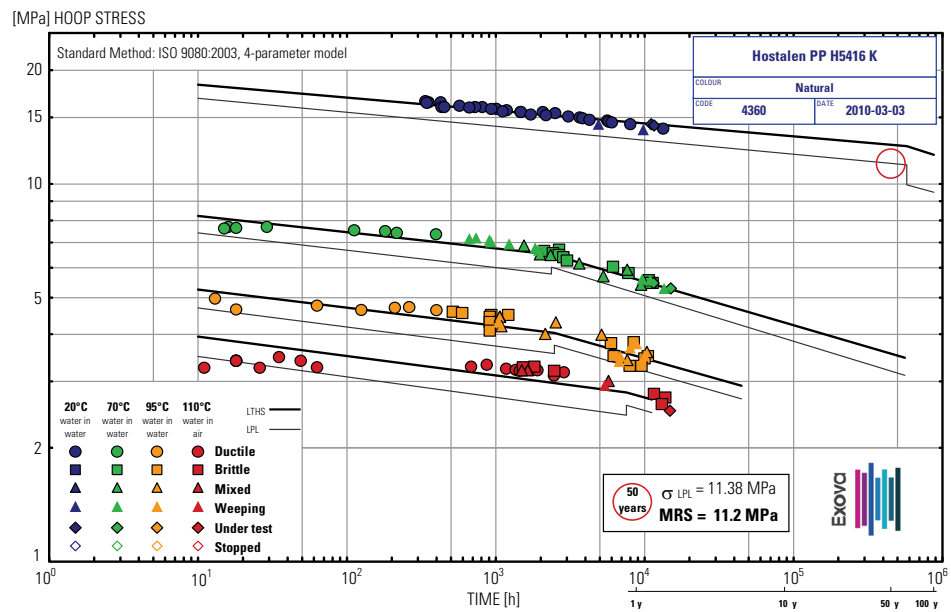


CLIENT: PolyMirae Company Ltd.

## REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF HOSTALEN PP H5416 K



### INTRODUCTION

Exova 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 pipe grade according to ISO 9080 in order to obtain a MRS-classification according to ISO 12162 of Hostalen PP H5416 K from PolyMirae Company Ltd.

### RESULTS OBTAINED

The evaluation was performed in accordance with ISO 9080:2003. More information can be found in Exova Report P-10/39.

#### EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	$\sigma_{LPL}$ [MPa]	$\sigma_{LTHS}$ [MPa]
20	50.0	11.38	12.72
20	100	9.51	11.95
70	63.8	3.11	3.47
70	50.0	3.21	3.57
95	5.11	2.70	2.92
110	1.28	2.48	2.69



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### CLASSIFICATION

MRS = 11.2 MPa