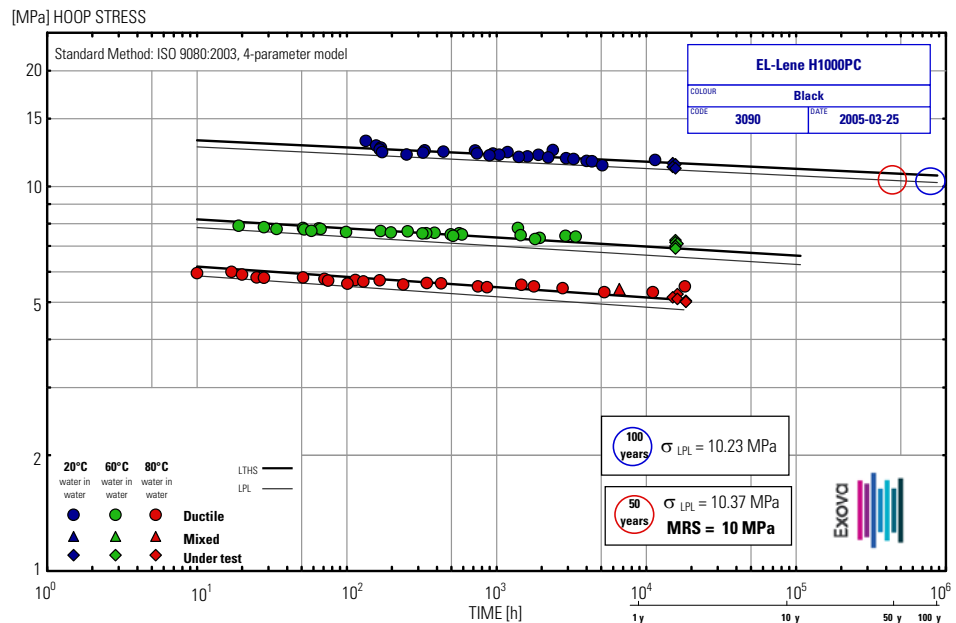


CLIENT: SCG Performance Chemicals CO., Ltd.

## REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE GRADE EL-LENE H1000PC



### 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 compound according to ISO 9080 in order to obtain a MRS-classification according to ISO 12162 of the PE pipe grade EL-LENE H1000PC from SCG Performance Chemicals CO., Ltd.

### RESULTS OBTAINED

The evaluation was performed in accordance with ISO 9080:2003. More information can be found in Exova Report P-08/36.

#### EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	$\sigma_{LPL}$ [MPa]	$\sigma_{LTHS}$ [MPa]
20	50.0	10.373	10.822
20	100	10.233	10.685
60	12.2	6.259	6.601
80	2.04	4.781	5.067



### CLASSIFICATION

**MRS = 10 MPa**

Exova Nyköping Polymer  
T +46 155 20 64 71  
F +46 155 26 31 25  
E matias.svedberg@exova.com  
W www.polymer.exova.com

Exova Marketing centre  
T +44 161 787 3291  
F +44 161 787 3251  
E info@exova.com  
W www.exova.com