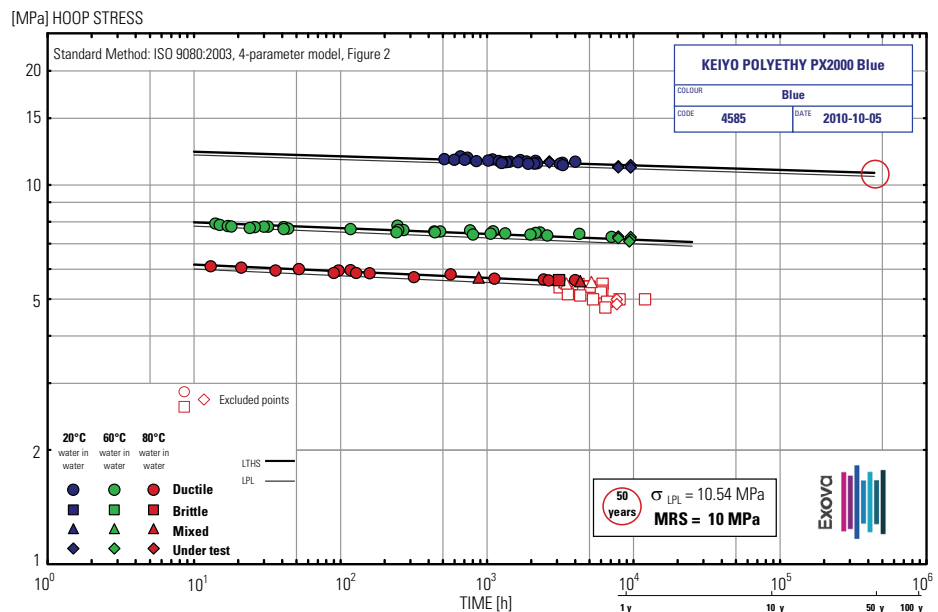


CLIENT: Keiyo Polyethylene Co., Ltd. REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE MATERIAL KEIYO POLYETHY PX2000 BLUE



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 PE pipe grade according to ISO 9080 in order to obtain a MRS-classification according to ISO 12162 of the PE pipe material KEIYO POLYETHY PX2000 Blue from Keiyo Polyethylene Co., Ltd.

RESULTS OBTAINED

The evaluation was performed in accordance with ISO 9080:2003. More information can be found in Exova Report P-10/116.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50.0	10.54	10.76
20	50.3	10.54	10.76
60	2.87	6.89	7.07
80	0.48	5.40	5.55

CLASSIFICATION

MRS = 10 MPa

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