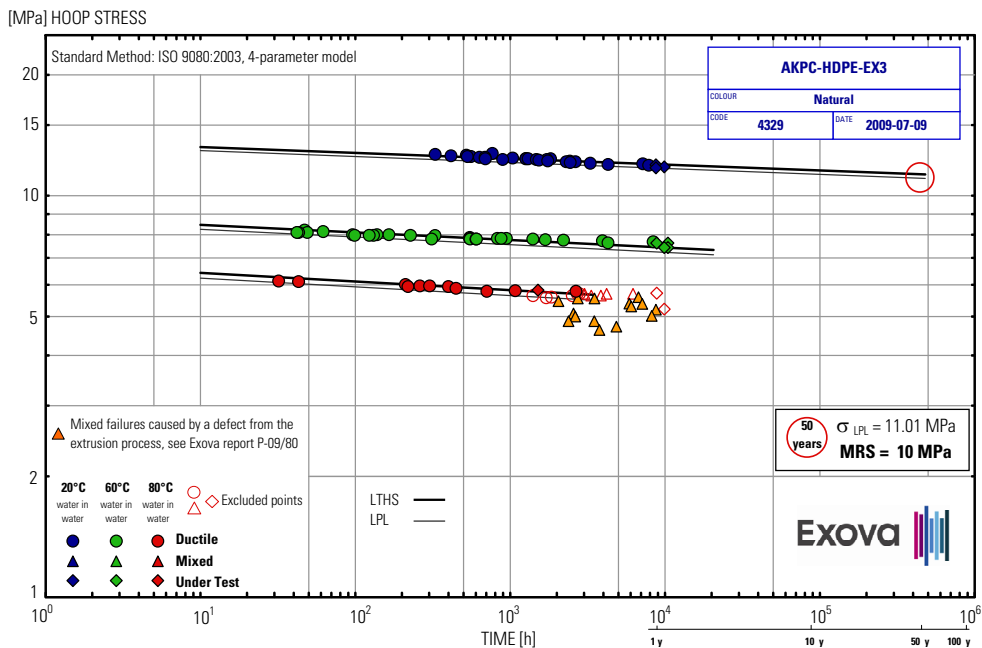




CLIENT: Amir Kabir Petrochemical Company

REGRESSION ANALYSIS ACCORDING TO ISO 9080 OF THE PE PIPE GRADE AKPC-HDPE-EX3 NATURAL



INTRODUCTION

Exova Polymer (formerly 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 AKPC-HDPE-EX3 Natural from Amir Kabir Petrochemical 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 Exova Report P-09/81.

EXTRAPOLATED STRENGTH VALUES

Temp [°C]	Time [Yrs]	σ_{LPL} [MPa]	σ_{LTHS} [MPa]
20	50	11.011	11.332
60	2.34	7.085	7.331
80	0.39	5.452	5.665

CLASSIFICATION

MRS = 10 MPa

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