SP PROVNING · FORSKNING

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92M30822

De Neef Scandinavia
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Supplement to the reports designated 86M30132 of January 23, 1989 and June 24, 1991

Commission

Determination of an expected service life at 7 °C of the materials tested by extrapolation of the experimental results.

Result

For the material designated TACSS, the evaluation was done for the two critical levels, i.e. 70 % and 60 % of the original compressive strength (see also Appendix). The expected service life of TACSS in alkaline environment at 7 °C is determined to about 110 years for a 40 % decrease of the compressive strength, and 80 years for a 30 % decrease.

For a mixture of 75 % TACSS and 25 % FLEX, and assuming that the activation energy is 87.3 kJ/mole (see report 86M30132 dated June 24, 1991), the expected service life at 7 °C is determined to be more than 320 years for a 30 % decrease of the compressive strength.

Swedish National Testing and Research Institute
Polymer Technology

Ignacy Jakubowicz
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Translation of letter from 1993-02-03 of Swedish National Testing and Research Institute

" *Report on tests with marking 86M30132 dated 89-01-23 and 91-06-24.*

Order

The longevity of the tested materials at 7°C is calculated from performed tests.

Results

For the material TACSS two tests were performed, by 70 % and 60 % compression. The longevity of TACSS in an alkali environment at 7°C will be 110 years at a reduction to 40 % compression and 80 years by a reduction of 30 % of the compression.

For a mixture of 75% Tacss and 25% Flex and with an activationenergy of 87.5 kJ/mol the longevity at 7°C for a 30 % reduction in compression is approx. 320 years.

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