



Technical University in Liberec

Laboratory Color and Appearance Measurement

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Diploma thesis review

WARNING CLOTHING - STUDY OF FLUORESCENCE FADING IN UV IRRADIATION

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High visibility warning clothing is necessary to signal out the presence of the worker to detect and quickly percept of the worker that work in dangerous conditions, in any luminosity conditions, on day time (including on bad weather conditions: mist, rain etc.), on night time (including headlights) or working places where adequate lighting condition can not be ensured (for example mines, work in pipes, tunnels). In order to produce high visibility warning clothing there are used textile fabrics which should correspond the main performing parameters, concerning: chromacity characteristics, color fastness to rubbing, perspiration, washing, bleaching and washing agent, mechanical characteristics: tensile strength, tearing strength. The higher visibility materials can be classified as retro-reflective, photo-luminescent and fluorescent. In this diploma work main part was directed on lightfastness phenomena.

Author of this diploma thesis worked independently with enthusiasm and deep interest in studied problems of this scientific field. Nevertheless I need to comment some small mistakes as graphs typically on figs. 4-8, 4-9 ...where author on y axis used wrong description of units, because there are no mentioned % of reflectance but grade of reflectance.

The comments above do not reduce drastically the results of work and therefore evaluate the dissertation:

- excellent -

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