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Resistance to ignition of postural support devices according to ISO 7176-16

(3 appendices)

SP has by request of Panthera AB performed fire tests according to ISO 7176-16. The purpose of the tests is to form a basis for technical fire classification.

Products

Postural support called “Ryggklädsel/backrest upholstery S3/X”. According to the client the product consists of:

Component	Material content	Manufacturer	Nominal data
Cover fabric 1	60% Nylon 40% PU	Comfielite (KR)	410 g/m ²
Cover fabric 2	Polyester	Palmhive (UK)	350 g/m ²
Filling	Polyether	Svenska Dynor AB	30 kg/m ³

Postural support called “Dyna /Cushion S3/X”. According to the client the product consists of:

Component	Material content	Manufacturer	Nominal data
Cover fabric	Polyester	Palmhive (UK)	350 g/m ²
Foam 1	Kallskum/Polyether	Special-Plast AB	44 kg/m ³
Foam 2	Polyether	Special-Plast AB	80 kg/m ³
Foam 3	Sensaten (LDPE)	Special-Plast AB	50 kg/m ³

Sampling

The samples were delivered by the client. It is not known to SP Fire Research if the products received are representative of the mean production characteristics.

The samples were received on May 27, 2016 at SP Fire Research.

Test results

The postural support called “Ryggklädsel/backrest upholstery S3/X” was tested with a match flame equivalent as ignition source.

The ignition source was applied to the centre of the specimen in a 45° ± 5° angle to the horizontal plane ± 3° at 0.1 x the height of the lower edge of the specimen.

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The postural support called “Dyna /Cushion S3/X” was tested with a match flame equivalent as ignition source.

The ignition source was applied to the centroid of the specimen in a $45^\circ \pm 5^\circ$ angle to the horizontal plane.

Special care was taken to note any progressive smouldering and/or flaming combustion in the combination.

The test results are given in appendix 1 - 2.

The test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of the test; they are not intended as a means of assessing the potential fire hazard of the materials or products in use.

Criteria

Section 8 in ISO 7176-16:2012 describing ”Requirements” with regards to progressive smouldering ignition, flaming ignition and burn damaged area.

Assessment

The tested postural supports called “Ryggklädsel/backrest upholstery S3/X” and “Dyna /Cushion S3/X” meet the technical fire requirements according to ISO 7176-16.

SP Technical Research Institute of Sweden Safety - Fire Research, Fire Dynamics

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Appendices

- 1 - 2. Test results – ISO 7176-16:2012
3. Photos of specimens after test