

REPORT

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Handläggare, enhet / <i>Handled by, department</i>	Datum / <i>Date</i>	Beteckning / <i>Reference</i>	Sida / <i>Page</i>
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Tensile strength test on eyelets.

Assignment

Tensile strength test.

Test objects

Holdon Mini and Maxi clip-on eyelets see photo 1. Round brass-eyelets and plastic-eyelets see photo 2. The holding efficiency is tested on 650/700 coated vinyl fabrics.

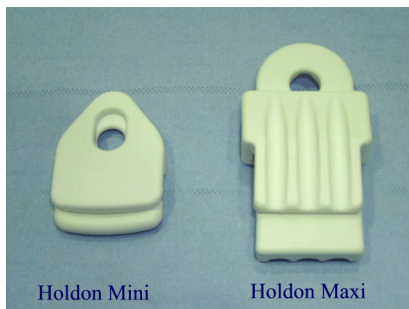


Photo 1



Photo 2

Arrival of test object

25 February, 2003.

Date of testing

The test objects were tested at SP 18-21 March, 2003.

The test objects have been selected by the client without SP's assistance. The test results shown in this report refer only to the tested objects.

Test procedure

Holdon Mini and Maxi clip-on eyelets were tested on coated vinyl fabrics to see the holding efficiency. Through the round brass-eyelets and plastic-eyelets there were mounted suitable axles. The test objects were mounted in the testing machine called Adamel see photo 3. The test objects were then pulled to fracture with a constant speed of 20 mm/min.



Photo 3. Adamel testing machine with Holdon Maxi.

Test results

The maximum breaking forces are shown in table.

Marking	Maximum breaking force (N)	Remarks
Holdon Mini clip-on eyelet	734	Holdon Mini clip-on eyelet slip from the fabric
	756	Holdon Mini clip-on eyelet slip from the fabric
	763	Holdon Mini clip-on eyelet slip from the fabric
	775	Holdon Mini clip-on eyelet slip from the fabric
	755	Holdon Mini clip-on eyelet slip from the fabric
Holdon Maxi clip-on eyelet	1016	Fracture on the Maxi clip-on eyelet
	972	Fracture on the Maxi clip-on eyelet
	992	Fracture on the Maxi clip-on eyelet
	1004	Fracture on the Maxi clip-on eyelet
	1038	Fracture on the Maxi clip-on eyelet
Round brass-eyelet	461	Fracture at the vinyl coated fabric in the eyelet
	520	Fracture at the vinyl coated fabric in the eyelet
	496	Fracture at the vinyl coated fabric in the eyelet
	494	Fracture at the vinyl coated fabric in the eyelet
	510	Fracture at the vinyl coated fabric in the eyelet
Round plastic-eyelet	402	Fracture at the vinyl coated fabric in the eyelet
	444	Fracture at the vinyl coated fabric in the eyelet
	415	Fracture at the vinyl coated fabric in the eyelet
	429	Fracture at the vinyl coated fabric in the eyelet
	393	Fracture at the vinyl coated fabric in the eyelet

Measurement uncertainty

The measurement uncertainty for the maximum force is <1%.

The reported expanded uncertainty of measurement is stated as the combined standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95%.

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