

**FLAME - RETARDANT FASTENERS (FR)**

Technical data sheet

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Date Aug/2011

The tapes treated with the flame-retardant coating have good flame-retardant properties.

Internal labref.: 1145 - 148345

**Tapes**

for info on base tapes see individual technical data sheets  
 hook and loop high strength : TDS 011  
 mushroom and velours : TDS 004  
 gripper PA small, medium, large : TDS 501, 502, 503

**Flame retardancy**

**hook and loop**

the quality passes the following tests:  
 - F.M.V.S.S. 302 / TL 10 10 / DIN 75 200 / ISO3795: Determination of flammability of materials used in the interior of motor vehicles.  
 - F.A.R. 25.853 (a): measurement of flammability of aircraft materials.  
 - airbus standard ABD0031: Measurement of flammability, smoke density and smoke toxicity according to Airbus Specifications  
 - directive 95/28/EG: Determination of flammability of materials used in the interior construction of certain categories of motor vehicles.

**mushroom and velours**

The quality passes the following tests:  
 - F.M.V.S.S. 302 / TL 10 10 / DIN 75 200 / ISO3795: Determination of flammability of materials used in the interior of motor vehicles.  
 - F.A.R. 25.853 (a): measurement of flammability of aircraft materials.

**grippers PA**

The quality passes the following tests:  
 - F.M.V.S.S. 302 / TL 10 10 / DIN 75 200 / ISO3795: Determination of flammability of materials used in the interior of motor vehicles.  
 - F.A.R. 25.853 (a): measurement of flammability of aircraft materials.

**Colours**
















**hook and loop**  
**mushroom**  
**velours**  
**grippers PA**

all colours on our shade card, other colours are possible on request  
 all colours on our shade card, other colours are possible on request  
 white and black, other colours on request  
 only white and black

**Cleaning instructions**

**hook and loop**

cleaning with fastener in closed position: to protect fastener and washing

	<b>washing</b>	<b>bleaching</b>	<b>ironing</b>	<b>dry-cleaning</b>	<b>tumble dryer</b>
					
<b>mushroom and velours</b>					
<b>ATTENTION:</b> <b>grippers PA</b>					

- Velours loses its flame retardant properties after washing.

**IMPORTANT**

-The tapes pass the above mentioned flame retardancy tests. However, the tests must be repeated testing the assembly of the tape and the substrate.  
 -This tape contains no bromine flammability stabilizers type penta-BDE, octa-BDE, deka-BDE or penta-PBDE and octa-PBDE.

**Special versions**

**glues**

**reactivable coating**  
**back-to-back**

**ATTENTION:** 100 % FR Certification can be submitted only in combination with FRA-glue!

Combinations with other mentioned glues can NOT be certified! Tests to be carried out by the user.

**Tests by user & guarantees**

The information above only serves as a general guideline.  
 We advise any user to determine the suitability of the intended application through tests performed by himself.

All information, technical advice, recommendations & descriptive material on this product are based upon tests which are generally reliable, although we cannot fully guarantee the accuracy of these tests. The buyer, who is a professional user, will be bound to carry out all tests himself, in order to verify whether the goods are suited and can be used safely for the intended purpose. The only obligation of the seller may consist in replacing the goods of which the imperfection has been proven, insofar as the seller can be held liable for the imperfection under the present conditions. The buyer will protect and hold harmless the seller against any claim whatsoever which could be made by the private enduser on the account of his product liability. In the same way, the buyer will safeguard the seller for each claim made by third parties, exceeding the limitation of liability as stipulated herewith. In addition, we serve ourselves the right to subject the products to technical changes without prior notice. Please make sure that you have the latest version of the technical data sheet.