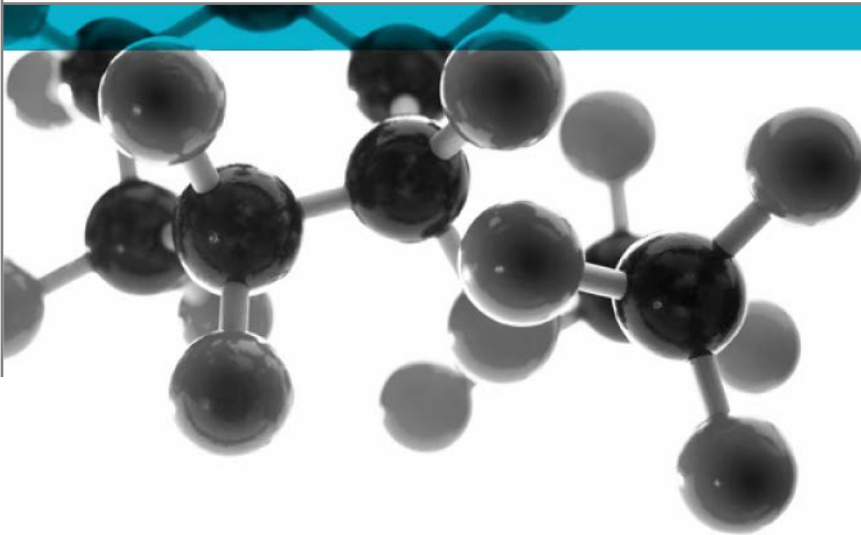


UN Regulation No. 118 Annex 7



Test To Determine The Melting Behaviour Of Materials

A Report To: Camira Transport Fabrics Ltd.

Document Reference: 417491

Date: 16th August 2019

Issue: 1

Page 1



Executive Summary

Objective To determine the performance of the following product when tested in accordance with UN Regulation No. 118 Annex 7.


Generic Description	Product reference	Thickness	Weight per unit area
Polypropylene	"Premier Trim"	4.5mm	500g/m ²
Please see page 6 of this test report for the full description of the product tested			

Test Sponsor Camira Transport Fabrics Ltd., Meltham Mills, Meltham Mills Road, Meltham, West Yorkshire, HD9 4AY


Test Results: **When tested in accordance with UN Regulation No. 118 Annex 7, the product submitted for test did not produce droplets which ignited the cotton wool and therefore, in accordance with Section 6.2.2 of the standard, the test results are deemed to be satisfactory.**

Date of Test 9th August 2019

Signatories



Responsible Officer
C. Jacques *
Senior Technical Officer



Authorised
T. Mort *
Senior Technical Officer

* For and on behalf of [Warringtonfire](#).

Report Issued: 16th August 2019

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Test Details

Purpose of test	<p>To determine the performance of the material when it is tested in accordance with UN Regulation No. 118 Annex 7, a test to determine the melting behaviour of materials.</p> <p>The test was performed in accordance with the test procedure specified in UN Regulation No. 118 Annex 7 and this test report should be read in conjunction with that Standard.</p>
Fire test study group/EGOLF	<p>Certain aspects of some fire test specifications are open to different interpretations. The Fire Test Study Group and EGOLF have identified a number of such areas and has agreed Resolutions which define common agreement of interpretations between fire test laboratories which are members of the Groups. Where such Resolutions are applicable to this test they have been followed.</p>
Instruction to test	<p>The test was conducted on the 9th August 2019 at the request of Camira Transport Fabrics Ltd, the sponsor of the test.</p>
Provision of test specimens	<p>The specimens were supplied by the sponsor of the test. Warringtonfire was not involved in any selection or sampling procedure.</p>
Conditioning of specimens	<p>The specimens were received on the 7th August 2019.</p> <p>Prior to the test the specimens were conditioned for at least 24 hours in an atmosphere having a temperature of $23 \pm 2^{\circ}\text{C}$ and a relative humidity of $50 \pm 5\%$.</p>
Test procedure	<p>The specimens were placed in a horizontal position and exposed to an electric radiator. A receptacle containing cotton wool was positioned under the specimen to collect droplets. Cotton wool was put in the receptacle in order to verify if any drops were flaming.</p>
Specimen orientation	<p>Both faces of the specimens was exposed to the radiant heat of the test when the specimens were mounted in the test position.</p>

Description of Test Specimens

The description of the system given below has been prepared from information provided by the sponsor of the test. This information has not been independently verified by Warringtonfire. All values quoted are nominal, unless tolerances are given.

Generic type	Polypropylene
Trade name	"Premier Trim"
Name of manufacturer	Camira Transport Fabrics Ltd
Composition details	100% Polypropylene
Weight per unit area	500g/m ² (stated by sponsor) 565.31g/m ² (determined by Warringtonfire)
Thickness	4.5mm (stated by sponsor) 3.11mm (determined by Warringtonfire)
Colour reference	"Black HPRT10"
Flame retardant details	See Note 1 below
Brief description of manufacturing process	Non woven needle punch

Note 1. The sponsor of the test was unable to provide this information.

Test Results

Test face	Front			
	Specimen No.			
	1	2	3	4
Weight (g)	2.77	2.74	2.77	2.54
Flaming droplets produced?	No	No	No	No
Non-flaming droplets produced?	Yes	Yes	Yes	Yes
<u>Combustion of product</u>				
Time to ignition (seconds)	145	152	156	196
Duration of flaming (seconds)	230	250	248	238
Length of flame (mm)	30	30	30	30
Ignition of cotton wool?	No	No	No	No
<u>Comments:</u> In the case of each specimen tested, melted residue remained on the gauze following the test.				

Test face	Back			
	Specimen No.			
	1	2	3	4
Weight (g)	2.26	2.59	2.74	2.75
Flaming droplets produced?	No	No	No	No
Non-flaming droplets produced?	Yes	Yes	Yes	Yes
<u>Combustion of product</u>				
Time to ignition (seconds)	179	201	101	335
Duration of flaming (seconds)	245	197	278	119
Length of flame (mm)	30	40	20	40
Ignition of cotton wool?	No	No	No	No
<u>Comments:</u> In the case of each specimen tested, melted residue remained on the gauze following the test.				

Conclusion

When tested in accordance with UN Regulation No. 118 Annex 7, the product submitted for test did not produce droplets which ignited the cotton wool and therefore, in accordance with Section 6.2.2 of the standard, the test results are deemed to be satisfactory.

Applicability of test results

The test results relate only to the behaviour of the specimens under the particular conditions of this test, they should not be used to infer the fire hazards of the material in other forms or under other fire conditions.

The test results relate only to the specimens of the product in the form in which they were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product which is supplied or used is fully represented by the specimens which were tested.

Validity

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over five years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the test report.

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Revision History

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