

## FLAMMABILITY TEST REPORT

Report Ref: 344169/05    Date Received : 09/01/06    Date Tested: 11/01/06    Original Issue Date: 11/01/06  
 Amended    Amended Issue Date: 12/01/06

**Company Name & Address:** RIDGEVIEW  
 MONAVALLEY BUSINESS PARK  
 TRALEE  
 Co KERRY  
 IRELAND

**Contact Name:** SPELA CVAR

**Sample Details**

Order no.: Not stated  
 Specification No.: Not stated  
 Item description: Socks  
 Reference number.: 12590/fire  
 Colour(s) : Dark grey  
 Supplier: Spinnerei Lampertsmuhle  
 Style number: 12590  
 Quality: Kermel / Viscose  
 End use: Socks  
 Quoted fiber composition: 82% Kermel / Viscose, 17% Elastane, 1% Nylon  
 Fabric type: Knitted  
 Sample description: Dark grey coloured knitted socks

Test Method	Pre Treatment	Performance requirement	Result
BS EN 532: 1995	12 cycles of BS EN ISO 10528: 1995 (durability clause 6.3 at reduced 40°C. as requested by the customer) then tumble dried	BS EN 533: 1997	Limited flame spread Index 1 Limited flame spread Index 2

Please note: Due to the narrow width of the samples the alternative specimen holder (No. 2) from BS EN ISO 6940: 1984 was used. The sample was not wide enough to prepare cross direction samples so all specimens tested were machine direction.

 ..... <b>KRISTIAN LEE</b> (Flammability Technician)	 ..... <b>STEVEN OWEN</b> (Flammability Technician)	 ..... <b>SIMON CHEE</b> (Area Leader)	 ..... <b>ANDREW WHITE</b> (Quality Manager)
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Company Reg. No. 2594606  
 V.A.T. Reg No. GB 672 7639 96



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### Test Specification

Test method	BS EN 532: 1995 as required by BS EN 533: 1997
Criterion of ignition:	40mm high Propane gas flame
Ignition type:	Face
Flame application time:	10 seconds
Sample size:	200 x 80mm (Single layer material)

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### Pre-treatment / Durability procedure

12 cycles of BS EN ISO 10528: 1995 (durability clause 6.3 at reduced 40°C, as requested by the customer) then tumble dried

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### Conditioning

Prior to testing: At least 24 hours in an atmosphere having a temperature of 20±2°C, and a relative humidity of 65±5%

At time of testing: Temperature between 10°C & 30°C.  
Relative humidity between 15% & 80%.  
Air movement less than 0.2m/s.

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**Test Results**

*"The test results were obtained using the specified test conditions and do not necessarily represent the behavior of the test material under other conditions of test or use."*

**Before washing**

Specimen No. / Direction	Afterflame (To nearest whole Sec)	Afterglow (To nearest whole Sec)	Flaming / molten debris	Flame / Hole to edge	Hole formed	Afterglow spread beyond the flame spread area	Maximum damaged length (mm)	
							Horizontal	Vertical
1. Warp ↑	0	0	No	No / No	No	No	28	41
2. Warp ↓	0	0	No	No / No	No	No	29	54
3. Warp ↑	0	0	No	No / No	No	No	28	52
4. Warp ↓	0	0	No	No / No	No	No	27	57
5. Warp ↑	0	0	No	No / No	No	No	29	55
6. Warp ↓	0	0	No	No / No	No	No	31	59

**After washing**

Specimen No. / Direction	Afterflame (To nearest whole Sec)	Afterglow (To nearest whole Sec)	Flaming / molten debris	Flame / Hole to edge	Hole formed	Afterglow spread beyond the flame spread area	Maximum damaged length (mm)	
							Horizontal	Vertical
1. Warp ↑	0	0	No	No / No	No	No	30	56
2. Warp ↓	12	0	No	No / No	No	No	31	55
3. Warp ↑	0	0	No	No / No	No	No	28	63
4. Warp ↑	5	0	No	No / No	No	No	28	57
5. Warp ↓	0	0	No	No / No	No	No	32	68
6. Warp ↑	9	0	No	No / No	No	No	28	57

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### Requirements

#### **Requirements for limited flame spread Index 1**

No specimen shall permit any part of the lowest boundary of any flame or hole to reach the upper or either vertical edge.  
No specimen shall give flaming debris.  
Any afterglow shall not spread from the carbonised area to the undamaged area after cessation of flaming.

#### **Requirements for limited flame spread Index 2**

No specimen shall permit any part of the lowest boundary of any flame or hole to reach the upper or either vertical edge.  
No specimen shall give flaming debris.  
Any afterglow shall not spread from the carbonised area to the undamaged area after cessation of flaming.  
No specimen shall give hole formation.

#### **Requirements for limited flame spread Index 3**

No specimen shall permit any part of the lowest boundary of any flame or hole to reach the upper or either vertical edge.  
No specimen shall give flaming debris.  
No afterglow shall spread from the carbonised area to the undamaged area after cessation of flaming.  
No specimen shall give hole formation.  
The mean afterflame time of any set of six samples shall not exceed 2 seconds.

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### Conclusions

The sample tested meets the requirements of limited flame spread index 1 and limited flame spread index 2 of BS EN 533: 1997, but does not meet the requirements of limited flame spread index 3 of BS EN 533: 1997  
(See notes on page one of this test report)

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