

TEST REPORT

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EVALUATION CENTER

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PRODUCT EVALUATED: 456 FR
EVALUATION PROPERTY: NFPA 701-15, METHOD 1
STANDARD METHODS OF FIRE TESTS FOR FLAME
PROPAGATION OF TEXTILES AND FILMS

**Report of Testing 456 FR for compliance with the applicable
requirements of the following criteria: NFPA 701-15, METHOD 1 Standard
Methods of Fire Tests for Flame Propagation of Textiles and Films**

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2 Introduction

Intertek has conducted testing for Serge Ferrari on 456 FR to assess the propagation of flame beyond the area exposed to the ignition source. Testing was conducted in accordance with NFPA 701-15, Method 1 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films. This evaluation began October 24, 2017 and ended October 24, 2017.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples were received at the Evaluation Center on October 23, 2017 in good condition.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Sample Name: 456 FR

Sample Description: Polyester yarns coated with PVC flame retardant on both sides and varnished.

Weight: $500 \text{ g/m}^2 \pm 10\%$, Thickness: $0.42 \text{ mm} \pm 10\%$, Polyester yarns: 32% - PVC flame retardant 68%.

The test specimen identified as 456 FR was cut into 5.9 in. x 15.75 in. samples by Intertek. The samples were weighed in grams before testing. Ten specimens were numbered, weighed and conditioned for at least 30 min. at $220 \pm 5^\circ\text{F}$ ($105 \pm 3^\circ\text{C}$) before testing. The specimens were removed from the oven one at a time and tested within 2 minutes.

4 Testing and Evaluation Methods

4.1. TEST STANDARD

Testing is conducted in accordance with Chapters 4 – 10 of the Standard.

4.2. TEST CRITERIA

The average weight loss of ten specimens was not greater than forty percent (40%). The percent weight loss of any individual specimen did not exceed the mean percent weight loss value plus three standard deviations. The average floor flame of ten specimens was not greater than 2 seconds.

4.3. Deviations from the Standard Method

No deviations.

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

Environmental Conditions: 73.4°F and 48% R.H.

Equipment Used:

Stop watch #1403, Scale #1045, Oven #001200

Sample	Weight Before (g)	Weight After (g)	Weight Loss (%)	After Flame (sec)	Floor Flame (sec)
1	31.37	29.78	5.07	0.0	0.0
2	31.00	30.01	3.19	0.0	0.0
3	31.71	31.00	2.24	0.0	0.0
4	31.41	23.06	26.58	0.0	0.0
5	31.55	23.12	26.72	0.0	0.0
6	30.99	30.22	2.48	0.0	0.0
7	31.36	26.60	15.18	0.0	0.0
8	30.84	23.02	25.36	0.0	0.0
9	31.04	29.92	3.61	0.0	0.0
10	29.98	28.54	4.80	0.0	0.0
Average	31.13	27.53	11.52	0.0	0.0

Any fragments that fell to the floor did not burn more than 2 seconds. The average weight loss of the ten samples was less than 40%. The mean percent weight loss value plus three standard deviations of the percent weight loss is 42.25. The percent weight loss of any individual specimen did not exceed the mean percent weight loss value plus three standard deviations.

Based on this information it is concluded the specimen passes the test criteria.

6 Conclusion

Intertek has conducted testing for Serge Ferrari on 456 FR to assess the propagation of flame beyond the area exposed to the ignition source. Testing was conducted in accordance with NFPA 701-15 Standard Methods of Fire Tests for Flame Propagation of Textiles and Films-Method 1.

The sample PASSED the testing criteria for NFPA 701-15, Method 1 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

INTERTEK

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7 Revision Summary

DATE	SUMMARY
October 24, 2017	Original Report
