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Product Label Heat Resistance

Test Report

Part Number: L003



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1.0 GENERAL:

The purpose of this report is to satisfy the product label heat exposure requirement illustrated in TSO-C167 section 5.3.9. The product label used on the 497-H harness, part number L003, shall withstand exposure to heat at a temperature of 205˚C (400˚F) for 5 minutes.

2.0 SPECIFICATIONS:

The product label shall not melt, ignite, or separate and shall be legible to the unaided eye with 20/20 vision, or vision corrected to 20/20, at a nominal distance of 305 mm (12 in.).

3.0 CONDITIONING:

The product label specimen to be tested shall be conditioned in accordance with Section 4, Atmospheric Conditions for Testing, of Federal Test Method Standard 191A, Textile Test Methods, at a temperature of 70˚F ± 2˚F (21˚C ± 1˚C) at relative humidity of 65 percent, ±5 percent. Specimens shall be tested not more than 5 minutes after removal from conditioning.

4.0 TEST PROCEDURE:

1. Specimens shall be suspended in the oven utilizing metal clips.

2. The forced circulating air oven shall achieve and maintain an air temperature of 205°C, +3/−0°C (400°F, +10/−0°F) for a period of not less than 5 minutes. Oven recovery time after the door is closed shall not exceed 1 minute.

3. The product label specimen shall be suspended by metal hooks at the top and centered in the oven so that the entire specimen is not less than 50 mm (2 in.) from any oven surface or other specimen and airflow is parallel to the plane of the material.

4. Specimens, mounted as specified above, shall be placed in the circulating air oven for 5 minutes, +0.15/−0 minute. Specimen exposure time shall begin when the oven has recovered to an air temperature of 205°C, +3/−0°C (400°F, +10/−0°F).

5. Results shall be reported as pass or fail.

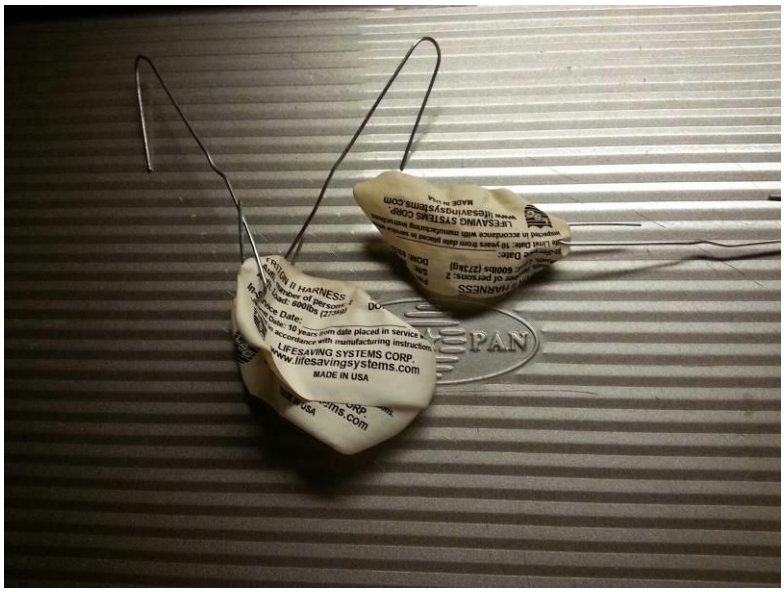
5.0 TEST RESULTS:

Sample	Part Number	Description	Results Pass/Fail
1	L003	497-H Product Label	PASSED
2	L003	497-H Product Label	PASSED
3	L003	497-H Product Label	PASSED





Labels in forced circulating air oven: Temperature of 400°F



Labels after 5 minutes @ 400˚F



Side-by-Side Comparison: New Labels and Labels after heat exposure.

Labels exposed to heat did not melt, ignite, or separate and are legible.

Light browning and curling occurred.

Labels passed TSO requirement.