



THOR Tarp
 Div. Of **ODIN** International, Inc



ThoroShield 1350 FR TemperTent

*13 oz/sy Fire Retardant, UV stabilized, Oil & Chemical Resistant,
 Waterproof Vinyl Coated Rip-stop PGT fiber Scrim*

Standard Sample: The dyed and finished cloth shall match the standard sample for shade and finish appearance and shall be equal to or better than the standard sample with respect to all characteristics for which the sample is referenced.

Fiber: The fiber shall be regular tenacity, semi-dull fiber prepared from polyethylene glycol terephthalate with a minimum melting point of 472°.

Physical Requirements: The finished cloth shall conform to the requirements specified in Table I when tested as specified.

Table I – Physical Requirements

| Characteristic | Minimum | Maximum |
|--|---------|---------|
| Weight, oz/yd ² | | 13.5 |
| Yarns /in: | | |
| Warp | 44 | |
| Filling | 32 | |
| Breaking strength, pounds: | | |
| Warp | 400 | |
| Filling | 300 | |
| Tearing strength, pounds: | | |
| Warp | 11 | |
| Filling | 7 | |
| Air permeability, ft ³ /min/ft ² : | | 1.0 |
| Gloss (face side only), percent: | | |
| 60° specular gloss | | 2.0 |
| 85° specular gloss | | 2.0 |

Weave: The weave shall be plain. The cloth shall be woven on either a fly-shuttle or a shuttleless loom. When the cloth is woven on shuttleless looms, the fringed selvages shall be removed from the cloth.

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Width: The width of the cloth shall be as specified and shall be the minimum width inclusive of the salvage when fly shuttle looms or shuttleless with tuck-in selvage looms are used.

Packaging Inspection: The inspection shall be in accordance with the quality assurance provisions of PPP-P-1135.

Spectral Reflectance Test: Reflectance data shall be obtained from 600 to 860 nanometers (nm) for Forest Green 433 and from 700 to 860 nm for Desert Tan 459 relative to barium sulfate standard white reference or a set of reference tiles. The spectral bandwidth at 860 nm shall be less than 25 nm. Reflectance measurements shall be made by either the monochromatic or polychromatic mode operation. When the polychromatic mode operation is used, the spectrometer shall operate with the specimen diffusely illuminated with the full emission of a continuous source that simulates in visible spectrum either CIE Source A or CIE Source D65. Specimens shall be measured as a single layer backed with two layers of the same shade cut from the standard. Readings will be taken on a minimum of two different areas, and the data averaged. The specimen shall be viewed at an angle no greater than 10 degrees from normal. Photometric accuracy of the spectrophotometer shall be within 2 nm. When the measured reflectance values for any color at four or more of the listed wavelengths do not meet the limits specified, it shall be considered a test failure.

Accelerated Weathering Procedure for Water Resistant Tests: The specimens for the water resistance after weathering tests shall be prepared in accordance with the procedure for flame resistance tests.

Hydrostatic Resistance after Low Temperature Test: The specimens shall be exposed to low temperature as specified in Method 5874 of FED-STD-191 except that the exposure temperature shall be $-20^{\circ} \pm 5^{\circ}$ F and the exposure time shall be a minimum of 4 hours. The face side on the specimens shall be toward the outside of the fold. After exposure to the low temperature, the specimens shall be tested for hydrostatic pressure resistance as specified in Method 5514 of FED-STD-191 with the water pressure applied to the face side of the specimens.

Accelerated Weathering Procedure for Flame Resistance Tests: The apparatus and procedure shall be in accordance with Method 5804 except that the filters shall be removed and the weathering procedure shall be as follows. Two swatches, each 9-1/2" by 28", shall be cut from the sample unit. One swatch shall be cut with the long dimension

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in the direction of the warp. The other cut with the long dimension in the direction of the filling. When the width of the sample unit does not permit a full 28" swatch to be taken in the filling direction, two 9-1/2" by 14" swatches shall be cut. The swatches shall be exposed one above the other, in the quadrant of the accelerated weathering apparatus for 100 hours. The swatches shall be changed from the top to bottom racks and visa versa each time the carbons are changed (approximately 17 to 20 hours) during a 100-hour exposure period. At the conclusion of the 100-hour exposure period, the swatches shall be removed from the apparatus and allowed to dry. Then five specimens for the fire resistance test shall be cut from each exposed swatch. All specimens shall be conditions at Standard Conditions prior to testing. The five specimens shall be cut such that the direction being tested shall have been exposed to accelerated weathering in the vertical position. In conduction fire resistance tests on these specimens, three specimens shall be subjected to the flame at the end that was at the top of the exposed material, and two shall be subjected to the flame at the end that was the bottom of the specimen. The lower edges of the fire resistance test specimens shall be trimmed, if necessary, so that a freshly cut end is exposed to the test flame.

Flexibility Test: The flexibility test shall be in accordance with Method 5202 of FED-STD-191 except that eight specimens, four with the long dimension in the warp direction and four in the filling direction, shall be cut from the same unit and pressed between two 6" by 6" glass plates weighted with a 30 pound weight for 4 hours at Standard Conditions prior to determining the flexibility. The load scale reading shall be taken only at a 20-degree angular deflection for each specimen.

Flexibility at Low Temperature Test: Flexibility test specimens shall be prepared as specified above. The weight and upper glass plate shall then be removed. The lower plate holding the conditioned and pressed specimens and the instrument shall then be subjected to a temperature of $-20^{\circ} \pm 5^{\circ}$ F for not less than 1 hour and then tested, at that temperature, as specified in Method 5202 of FED-STD-191.

Flexibility after Heat Aging Test: Flexibility test specimens shall be cut as specified. The specimens shall be subjected to a temperature of 200° to 250° F for 120 hours in a well-ventilated oven and then allowed to cool at Standard Conditions for 16 hours. The heat aged and conditioned specimens shall then be placed on glass plates under a 20-pound weight for 4 hours prior to testing as specified in Method 5202 of FED-STD-191.

Put-up and Preservation: Put-up and preservation shall be level A or Commercial as specified.

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Levels A and Commercial: The cloth shall be put-up and preserved in accordance with the applicable requirements of PPP-P-1135.

Packing: Packing shall be level A, B or Commercial as specified.

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Markings: In addition to any special marking required in the contact or purchase order, shipments shall be marked in accordance with the requirements of PPP-P1135.

To the best of our knowledge, the information contained herein is accurate. The information provided is based upon data furnished by our suppliers. However, ODIN International, Inc. assumes no liability whatsoever for the accuracy or completeness of the information contained herein. While believed to be reliable, the information of products are intended for use by skilled persons at their own risk. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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