

# Test Protocol For Camping Hammocks

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| Evaluation                      | Citation/ Method                   | Criteria   |
|---------------------------------|------------------------------------|--|
| CA Prop65<br>If Application     | CA Prop65 Requirements             | Hammocks shall be reviewed against California Proposition 65 to determine if additional testing and/ or labeling is required   |
| Safety Loading Capacity         | Per Request                        | Apply a loading of 5 kg inside the hammock, increase continuously loading by 5kg each time until the product is broken or damaged. Record the maxium loading.                  |
| <b>Heavy Metal Testing</b>      |                                    |  |
| Chromium VI                     | ASTM F963-17                       | < 5 mg/kg  |
| Nickel release                  | ASTM F963-17                       | < 5 mg/kg  |
| Total Cadmium                   | ASTM F963-17                       | < 5 mg/kg  |
| Total Lead                      | ASTM F963-17                       | < 5 mg/kg  |
| Arsenic                         | ASTM F963-17                       | < 5 mg/kg  |
| Mercury                         | ASTM F963-17                       | < 5 mg/kg  |
| <b>Organic Chemical Testing</b> |                                    |  |
| Azo Dyes                        | Reach Regulations EC No. 1907/2006 | < 5 mg/kg  |
| Bisphenol A                     | Reach Regulations EC No. 1907/2006 | < 5 mg/kg  |
| Carcinogenic & Allergenic Dyes  | Reach Regulations EC No. 1907/2006 | < 5 mg/kg  |
| Chlorinated organic carriers    | Reach Regulations EC No. 1907/2006 | < 5 mg/kg  |
| Free Formaldehyde               | Reach Regulations EC No. 1907/2006 | < 50 mg/kg   |
| Phthalates                      | 2008 CPSIA SOR/2016-188            | total limit 1000 ppm   |
| PFOS                            | Reach Regulations EC No. 1907/2006 | limit 1.0 ppm  |
| PFAS                            | Reach Regulations EC No. 1907/2006 | limit 1.0 ppm  |
| PH content                      | OEKO TEX STANDARD 100              | from 4- 9  |
| <b>Color Fastness</b>           |                                    |  |
| Color change                    | AATCC                              | All color minimum class 4.0  |
| Self-staining                   | AATCC                              | All color minimum class 4.5  |
| To Light                        | AATCC 16.3-20                      | All color minimum class 3.0 @60hours exposure  |
| To Washing                      | AATCC61-2A                         | Color Change:<br>non pigments- grade 4.0 min<br>pigments- grade 3.5 min<br>Color staining :<br>all fibers- class 4.0 min<br>nylon-class 3.5 min<br>Self-staining:grade 4.5 min |
| To Crocking                     | AATCC 8/116                        | Dry: Grade 4.0 min<br>Wet: Grade 3.0 min   |
| To Persiration                  | AATCC 15                           | Color Change: Grade 4.0 min<br>Color Staining : Grade 3.0 min  |
| To Water                        | AATCC 107                          | Color Change: Grade 4.0 min<br>Color Staining : Grade 3.0 min  |
| To Chlorine Bleach              | AATCC TS001                        | Color Change : Class 4.0 min   |
| To Non-Chlorine Bleach          | AATCC TS001                        | Color Change : Class 4.0 min   |
| <b>Packaging Components</b>     |                                    |  |
| Toxic Elements in packaging     | TPCH                               | Sum of (Pb+Cd+Hg+Cr VI) :100 ppm   |
| <b>Labeling</b>                 |                                    |  |
| Product Identification          | Visual                             | Must be visible at a point of sale   |
| Country of Origin Marking       | 19 CFR 134                         | Must be visible at a point of sale   |
| Care Label                      | Visual                             | Must be visible at a point of sale   |
| Fiber Content                   | 16 CFR 303                         | Must be visible at a point of sale   |