

ASTM PHYSICAL TESTS

| | TEST METHOD | SAMPLE SIZE | PERFORMANCE TIME |
|---|--|--|--------------------|
| ABRASION | | | |
| Martindale | ASTM D 4966 | 18" x full width | 5 – 7 days |
| Taber | ASTM D 3884, ASTM D 3389, ASTM D 4685 | 18" x full width | 5 – 7 days |
| Wyzenbeek | ASTM D 4157 | 18" x full width | 5 – 7 days minimum |
| COLORFASTNESS TO | | | |
| Crocking, Wet & Dry | ASTM D 5053 | 8" x 24" | 5 – 7 days |
| Light (QUV) | ASTM G 154 | Solid: 1 pc: 14" x 14" Print: 2 pcs: 14" x 14" FR | 5 days minimum |
| CONSTRUCTION | | | |
| Thickness | ASTM D 751, ASTM D 1777 | 10" x full width | 5 – 7 days |
| Thread/Yarn Count | ASTM D 3775, ASTM D 3887 | 10" x full width | 7 – 14 days |
| Weight, Mass (oz/yd ²) | ASTM D 751, ASTM D 3776 | 10" x full width | 5 – 7 days |
| Yarn Size | ASTM D 1059 | 10" x full width | 7 – 14 days |
| FIBER | | | |
| Identification | ASTM D 629 | 10" x full width | 7 – 14 days |
| MISCELLANEOUS | | | |
| Air Permeability | ASTM D 737 | 18" x full width | 7 – 14 days |
| Blocking | ASTM D 751 | 18" x full width | 5 – 7 days |
| Cold Crack | ASTM D 793, ASTM D 2136, ASTM D 3690 | 18" x full width | 5 – 7 days |
| Flex Testing | ASTM D 2097 | 15" x 36" | 7 – 14 days |
| Hydrostatic Pressure (Water Resistance), <i>Mullen or Suter</i> | ASTM D 751 | 18" x full width | 7 – 14 days |
| Moisture Content (Regain) | ASTM D 2654 | 16" x 16" | 5 – 7 days |
| Scrubability | ASTM F 793 | 18" x full width | 5 – 7 days |
| Snagging (Mace) | ASTM D 3939 | 18" x full width | 5 – 7 days |
| Snagging (Bean Bag Test) | ASTM D 5362 | 18" x full width | 5 – 7 days |
| Washability | ASTM F 793 | 18" x full width | 5 – 7 days |
| Water Vapor Transmission | ASTM E 96 | 36" x full width | 14 – 21 days |
| PILLING | | | |
| Brush | ASTM D 3511 | 36" x 36" | 5 – 7 days |
| Random Tumble | ASTM D 3512 | 18" x full width | 5 – 7 days |
| Martindale | ASTM D 4970 | 18" x full width | 5 – 7 days |
| STRENGTH | | | |
| Adhesion of Coating | ASTM D 751 | 18" x full width | 7 – 14 days |
| Bursting Strength – Mullen Burst | ASTM D 751, ASTM D 3786 | 18" x full width | 7 – 14 days |
| Bursting Strength – Ball Burst | ASTM D 751, ASTM D 3787 | 18" x full width | 7 – 14 days |
| Bursting Strength – Breaking (Tensile) Strength | ASTM D 5034, ASTM D 5035 | 12" x 36" | 5 – 7 days |
| Bursting Strength - Puncture Resistance | ASTM D 751, ASTM D 4833 | 18" x full width | 5 – 7 days |
| Bursting Strength - Seam Slippage | ASTM D 434, ASTM D 4034 | 18" x 36" | 5 – 7 days |
| Bursting Strength - Seam Strength | ASTM D 751, ASTM D 1683 | 18" x 36" | 5 – 7 days |
| Tear Strength – Elmendorf | ASTM D 751, ASTM D 1117, ASTM D 1424 | 18" x full width | 5 – 7 days |
| Tear Strength – Tongue | ASTM D 751, ASTM D 2261, ASTM D 2262 | 18" x full width | 5 – 7 days |
| Tear Strength - Trapezoid | ASTM D 1117, ASTM D 4533, ASTM D 5587, ASTM D 5733 | 18" x full width | 5 – 7 days |
| Tear Strength – Tack | ASTM D 751 | 18" x full width | 7 – 14 days |
| STRETCH | | | |
| Stretch and Set | ASTM D 3107, ASTM D 6614 | 36" x full width | 5 – 7 days |

FR = Full repeat.