

Protective Fabrics Test Report (Typical Results) – Westex DH

PHYSICAL PROPERTIES	SPRINGFIELD DH TW 6.5 oz/yd ²	SPRINGFIELD DH 7.5 oz/yd ²	SPRINGFIELD DH BW 8.5 oz/yd ²	NFPA 2112 Requirements	ASTM F1506 NFPA 70E Requirements
FIBER CONTENT AATCC 20A	48% Tencel 40% Modacrylic 12% Aramid	48% Tencel 40% Modacrylic 12% Aramid	48% Tencel 40% Modacrylic 12% Aramid		
WIDTH (inches) Cuttable	60 min	60 min	60 min		
WEIGHT (oz/yd²) ASTM D3776	6.5 (+/-5%)	7.5 (+/-5%)	8.5 (+/-5%)		
YARNS per INCH (warp x fill) Visual	76 x 47	76 x 55	76 x 68		
BREAKING STRENGTH (lbs, warp x fill) ASTM D5034	140 x 75	135 x 90	150 x 130		40 x 40 min
TEAR STRENGTH (lbs, warp x fill) ASTM D1424	10 x 8	9 x 7	8 x 7		4.0 x 4.0 min
DIMENSIONAL STABILITY (% warp x fill) After 5 washes 140°F AATCC 135	3.0 max	3.0 max	3.0 max		3.0 max
FLAME RESISTANCE (warp x fill) Afterflame (seconds)- Initial After 25 washes 140°F After 100 washes 140°F Char Length (inches)- Initial After 25 washes 140°F After 100 washes 140°F Melt or Drip ASTM D6413	0 x 0 0 x 0 0 x 0 2.6 x 1.5 2.6 x 1.8 2.6 x 2.3 None	0 x 0 0 x 0 0 x 0 1.3 x 0.9 2.2 x 1.8 2.0 x 1.7 None	0 x 0 0 x 0 0 x 0 2.3 x 2.2 2.6 x 2.0 2.2 x 2.1 None	2 x 2 max 2 x 2 max 4 x 4 max 4 x 4 max None	2 x 2 max 2 x 2 max 6 x 6 max 6 x 6 max None
HEAT TRANSFER PERFORMANCE (HTP) (cal/cm ²) Initial / After 3 washes 140°F- Contact Initial / After 3 washes 140°F- Spaced	8.7 / 9.0 12.0 / 11.9	9.3 / 10.1 11.6 / 12.0	10.3 / 10.7 12.8 / 12.8	3.0 min 6.0 min	
THERMAL SHRINKAGE (% warp x fill @ 500°F) Initial After 3 washes 140°F	0.7 x 0.4 1.0 x 0.2	0.6 x 0.3 +0.3 x 0.6	0.4 x 0.6 0.8 x +0.7	10 x 10 max 10 x 10 max	
ARC THERMAL PERFORMANCE VALUE (cal/cm ²) ATPV after 3 washes 140°F ASTM F1959	Level 2: 8.9	Level 2: 8.8	Level 2: 8.8		Level 1: 4.0 – 7.9 Level 2: 8.0 – 24.9
MANIKIN FLASH FIRE EXPOSURE % 2 nd or 3 rd Degree Burn ASTM F1930	16.4	13.5	8.7	50 max	
COLORFASTNESS- LAUNDERING AATCC 61 IIA- 1 cycle	4.0	4.0	4.0		3.0 min
WICKING (inches, warp x fill) DuPont Method- 15 minutes	4.8 x 4.7	4.7 x 4.3	4.2 x 4.0		
SEAM SLIPPAGE (lbs, warp x fill) ASTM D434	40 x 40 min	40 x 40 min	50 x 50 min		40 min (<8.4 osy) 50 min (>8.5 osy)
PILLING ASTM D3512-02, 30 minutes	4.5	4.5	4.5		
HEAT RESISTANCE (500°F, 5 minutes)	does not melt, drip, separate or ignite	does not melt, drip, separate or ignite	does not melt, drip, separate or ignite	does not melt, drip, separate or ignite	