

DuPont™ Nomex® Tech Sheet

		Nomex® Comfort 4.5 Oz	Nomex® IIIA 4.5 Oz.	Nomex® Comfort 6 Oz	Nomex® IIIA 6 Oz.	Nomex® MHP 7 Oz.
Basis Weight						
Nominal Basis Weight oz/yd2	ASTM D3776	4.5	4.5	6.0	6.0	7.0
Actual Basis Weight oz/yd2					6.2	
Durability						
Elmendorf Tear, lb, (warp/fill)	ASTM D1424	10.9/6.9	10.4/8	14.5/6.5	15.6/10.1	9/8
Taber Abrasion, cycles (CS-10 (1000 g))	ASTM D 3884	484	578	945	581	
Grab Strength, lb (warp/fill) (initial)	ASTM D5034	366/288	217/116	367/287	287/167	147/91
Comfort						
Vertical Wicking, inch (warp/fill) @ 15 minutes	DuPont	5.0/5.0	5.0/5.0	5.0/5.0	5.0/5.0	5.0/4.9
Air Permeability cfm/ft2		55	239	19	81	
Thermal Shrinkage		1	1.2			
Laundry Shrinkage , % (warp/fill) (100 X)	AATCC 135 (140oF)	1.5/1.1	1.2	1.5/1.1	3.55/4.44	<3
Pilling		3.1/4				3
Thermal Protection						
Vertical Flame Char Length, inch (warp/fill)	ASTM D6413	1.79/1.57	2.7/3	2.4/1.5	3.1/3.1	3/2.8
Exposure Energy						
Instrumented Thermal Mannikin (% total predicted body burn)	ASTM F1930					
6 cal/cm2 (3 sec at 2 cal/cm2 sec)		16.0	21.3	12.3	12.0	7.4
8 cal/cm2 (4 sec at 2 cal/cm2 sec)		49.0	49.2	35.0	34.5	23.8
10 cal/cm2 (5 sec at 2 cal/cm2 sec)		63.0			58.0	
Arc Thermal Protection Value (cal/cm2)				7.8	5.8	8.7
TPP Spaced (Thermal Protective Performance cal/cm2)		12.0	13.1	13.8	13.0	13.1
TPP Contact (Thermal Protective Performance cal/cm2)		6.2	7.6	6.7	6.2	9.6

