

# A619, A620, A621, A622, A623 & A624 TECHNICAL SPECIFICATIONS

<b>MATERIAL</b>			
BASE FABRIC WEIGHT	267 GSM		
FIBER / DENSITY	3k CARBON		
WEAVE STYLE	2 X 2 Twill		
TEXTURE	Textured/ Flat Surface		
FINISH	Matte/ Semi-Matte/ Gloss Finish		
<b>WEIGHT</b>	14.13 oz/yd <sup>2</sup>	479 GSM	
<b>THICKNESS</b>			
TEXTURED	0.021 in	0.52 mm	ASTM D1777
FLAT	0.017 in	0.43 mm	ASTM D1777
<b>ABRASION RESISTANCE</b>			
TABER CS-10	10000 Cycles		ASTM D3884
<b>BREAKING STRENGTH</b>			
WARP	563 lb/in	64 Nm	ASTM D751-A
FILL	552 lb/in	62 Nm	ASTM D751-A
45°	405 lb/in	46 Nm	ASTM D751-A
<b>TENSILE STRENGTH</b>			
WARP	567 lbf	2521 N	ASTM D751-B
FILL	594 lbf	2643 N	ASTM D751-B
45°	216 lbf	961 N	ASTM D751-B
<b>TENSILE STRENGTH</b>			
WARP	29393 PSI	202658 kPa	ASTM D751-B
FILL	30803 PSI	212379 kPa	ASTM D751-B
45°	11277 PSI	77752 kPa	ASTM D751-B
<b>FLEXURAL PROPERTIES</b>			
TOP	10945 mg-cm		BIS IS-6490-1971
BOTTOM	8887 mg-cm		BIS IS-6490-1971
<b>ELONGATION</b>			
WARP	7 %		ASTM D751-B
FILL	7 %		ASTM D751-B
45°	57 %		ASTM D751-B

# A628 & A629

## TECHNICAL SPECIFICATIONS

<b>MATERIAL</b>			
BASE FABRIC WEIGHT	267 GSM		
FIBER / DENSITY	3k CARBON		
WEAVE STYLE	2 X 2 Twill		
TEXTURE	Textured Surface		
FINISH	Matte Finish		
<b>WEIGHT</b>	15.20 oz/yd <sup>2</sup>	515 GSM	
<b>THICKNESS</b>	0.022 in	0.559 mm	ASTM D1777
<b>ABRASION RESISTANCE</b>			
TABER CS-10	23000 Cycles		ASTM D3884
<b>BREAKING STRENGTH</b>			
WARP	631 lb/in	71 Nm	ASTM D751-A
FILL	559 lb/in	68 Nm	ASTM D751-A
45°	442 lb/in	50 Nm	ASTM D751-A
<b>TENSILE STRENGTH</b>			
WARP	650 lbf	2892 N	ASTM D751-B
FILL	672 lbf	2989 N	ASTM D751-B
45°	245 lbf	1092 N	ASTM D751-B
<b>TENSILE STRENGTH</b>			
WARP	29228 PSI	201523 kPa	ASTM D751-B
FILL	30287 PSI	208820 kPa	ASTM D751-B
45°	11041 PSI	76218 kPa	ASTM D751-B
<b>FLEXURAL PROPERTIES</b>			
TOP	10310 mg-cm		BIS IS-6490-1971
BOTTOM	7108 mg-cm		BIS IS-6490-1971
<b>ELONGATION</b>			
WARP	7 %		ASTM D751-B
FILL	7 %		ASTM D751-B
45°	31 %		ASTM D751-B

# A600, A602, A603, A604, A605 & A606 TECHNICAL SPECIFICATIONS

<b>MATERIAL</b>			
BASE FABRIC WEIGHT	238 GSM		
FIBER / DENSITY	3k CARBON		
WEAVE STYLE	2 X 2 Twill		
TEXTURE	Textured/ Flat Surface		
FINISH	Matte/ Semi-Matte/ Gloss Finish		
<b>WEIGHT</b>	10.59 oz/yd <sup>2</sup>	359 GSM	
<b>THICKNESS</b>			
TEXTURED	0.021 in	0.52 mm	ASTM D1777
FLAT	0.017 in	0.43 mm	ASTM D1777
<b>ABRASION RESISTANCE</b>			
TABER CS-10	15000 Cycles		ASTM D3884
<b>BREAKING STRENGTH</b>			
WARP	387 lb/in	44 Nm	ASTM D751-A
FILL	416 lb/in	47 Nm	ASTM D751-A
45°	304 lb/in	34 Nm	ASTM D751-A
<b>TENSILE STRENGTH</b>			
WARP	432 lbf	1924 N	ASTM D751-B
FILL	416 lbf	1850 N	ASTM D751-B
45°	147 lbf	656 N	ASTM D751-B
<b>TENSILE STRENGTH</b>			
WARP	22604 PSI	155847 kPa	ASTM D751-B
FILL	21286 PSI	146760 kPa	ASTM D751-B
45°	7656 PSI	52787 kPa	ASTM D751-B
<b>FLEXURAL PROPERTIES</b>			
TOP	6002 mg-cm		BIS IS-6490-1971
BOTTOM	6273 mg-cm		BIS IS-6490-1971
<b>ELONGATION</b>			
WARP	5 %		ASTM D751-B
FILL	5 %		ASTM D751-B
45°	41 %		ASTM D751-B

# A447 & A491 TECHNICAL SPECIFICATIONS

<b>MATERIAL</b>			
BASE FABRIC WEIGHT	267 GSM		
FIBER / DENSITY	3k CARBON		
WEAVE STYLE	2 X 2 Twill		
TEXTURE	Textured Surface		
FINISH	Matte Finish		
<b>WEIGHT</b>	15.20 oz/yd <sup>2</sup>	515 GSM	
<b>THICKNESS</b>	0.022 in	0.559 mm	ASTM D1777
<b>ABRASION RESISTANCE</b>			
TABER CS-10	23000 Cycles		ASTM D3884
<b>BREAKING STRENGTH</b>			
WARP	631 lb/in	71 Nm	ASTM D751-A
FILL	559 lb/in	68 Nm	ASTM D751-A
45°	442 lb/in	50 Nm	ASTM D751-A
<b>TENSILE STRENGTH</b>			
WARP	650 lbf	2892 N	ASTM D751-B
FILL	672 lbf	2989 N	ASTM D751-B
45°	245 lbf	1092 N	ASTM D751-B
<b>TENSILE STRENGTH</b>			
WARP	29228 PSI	201523 kPa	ASTM D751-B
FILL	30287 PSI	208820 kPa	ASTM D751-B
45°	11041 PSI	76218 kPa	ASTM D751-B
<b>FLEXURAL PROPERTIES</b>			
TOP	10310 mg-cm		BIS IS-6490-1971
BOTTOM	7108 mg-cm		BIS IS-6490-1971
<b>ELONGATION</b>			
WARP	7 %		ASTM D751-B
FILL	7 %		ASTM D751-B
45°	51 %		ASTM D751-B

# A579, A580, A581 & A582 TECHNICAL SPECIFICATIONS

<b>MATERIAL</b>			
BASE FABRIC WEIGHT	200 GSM		
FIBER / DENSITY	3k CARBON		
WEAVE STYLE	Custom		
TEXTURE	Textured Surface		
FINISH	Semi-Matte Finish		
<b>WEIGHT</b>	12.63 oz/yd <sup>2</sup>	428 GSM	
<b>THICKNESS</b>	0.019 in	0.470 mm	ASTM D1777
<b>ABRASION RESISTANCE</b>			
TABER CS-10	15000 Cycles		ASTM D3884
<b>BREAKING STRENGTH</b>			
WARP	468 lb/in	53 Nm	ASTM D751-A
FILL	415 lb/in	47 Nm	ASTM D751-A
45°	315 lb/in	36 Nm	ASTM D751-A
<b>TENSILE STRENGTH</b>			
WARP	461 lbf	2049 N	ASTM D751-B
FILL	450 lbf	2004 N	ASTM D751-B
45°	118 lbf	525 N	ASTM D751-B
<b>TENSILE STRENGTH</b>			
WARP	24580 PSI	169473 kPa	ASTM D751-B
FILL	24189 PSI	166778 kPa	ASTM D751-B
45°	6569 PSI	45293 kPa	ASTM D751-B
<b>FLEXURAL PROPERTIES</b>			
TOP	6000 mg-cm		BIS IS-6490-1971
BOTTOM	6000 mg-cm		BIS IS-6490-1971
<b>ELONGATION</b>			
WARP	7 %		ASTM D751-B
FILL	6 %		ASTM D751-B
45°	57 %		ASTM D751-B

# A626

## TECHNICAL SPECIFICATIONS

<b>MATERIAL</b>			
BASE FABRIC WEIGHT	200 GSM		
FIBER / DENSITY	3k CARBON		
WEAVE STYLE	2 X 2 Twill Spread Tow		
TEXTURE	Flat Surface		
FINISH	Semi-Matte Finish		
<b>WEIGHT</b>	12.35 oz/yd <sup>2</sup>	419 GSM	
<b>THICKNESS</b>	0.016 in	0.41 mm	ASTM D1777
<b>ABRASION RESISTANCE</b>			
TABER CS-10	20000 Cycles		ASTM D3884
<b>BREAKING STRENGTH</b>			
WARP	649 lb/in	73 Nm	ASTM D751-A
FILL	660 lb/in	75 Nm	ASTM D751-A
45°	757 lb/in	86 Nm	ASTM D751-A
<b>TENSILE STRENGTH</b>			
WARP	703 lbf	3128 N	ASTM D751-B
FILL	701 lbf	3120 N	ASTM D751-B
45°	123 lbf	549 N	ASTM D751-B
<b>TENSILE STRENGTH</b>			
WARP	45925 PSI	316644 kPa	ASTM D751-B
FILL	43598 PSI	300599 kPa	ASTM D751-B
45°	7912 PSI	54549 kPa	ASTM D751-B
<b>FLEXURAL PROPERTIES</b>			
TOP	8439 mg-cm		BIS IS-6490-1971
BOTTOM	8341 mg-cm		BIS IS-6490-1971
<b>ELONGATION</b>			
WARP	6 %		ASTM D751-B
FILL	7 %		ASTM D751-B
45°	52 %		ASTM D751-B