



VIRAJ SYNTEX PVT. LTD.

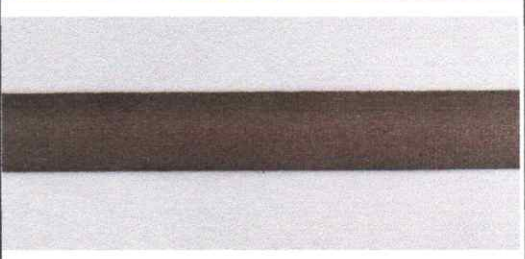


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Technical Test Certificate - MIL Spec.& PIA - Tapes/Webbings/Elastics

1	Item Name :	Webbing Cotton Elastic 1-1/2" Brown						Attach Below Item Image			
2	Report No :	VSPL/TTC/NWF/01		Date :		08.09.2026					
3	Customer Name :	Viraj Syntex Pvt. Ltd.		Our Item Code :		NWF-PIA-C-1192 BRN					
4	Customer Part No. :	N/A		Po. No. & Date :		N/A					
5	MIL Specification No :	PIA-W-5664		Type & Class :		I & 4					
6	Loom Type :	Needle Loom		Job No & Date :		Sample Test Report					
7	Sample Tested :	5		Qty/Lot Size :		As Per Requirement					
Sr	DETAILS	Unit	Specn Requirements	Tolerance	Test Results 1	Test Result 2	Test Result 3				
1	Width :	Inch	1.500	± 0.0625	1.459	1.458	1.458	1.460	1.458	1.459	ASTM D 3774 Option B
2	Weight / Meter :	oz./yd	2.350	max.	2.136	2.134	2.136	2.135	2.136	2.135	ASTM D 3776 Option D
3	Thickness /Unit :	Inch	0.094 - 0.156	N/A	0.098	0.098	0.098	0.097	0.098	0.098	ASTM D 1777 Option 2
4	Picks / Unit :	Inch	74 - 88	min.	76	76	76	76	75	76	ASTM D 3775
5	Warp Yarns / Unit :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5050
6	Break Strength & Test Graph :	lbs.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PIA 4108 - Graph Attached
7	After Abrasion Break Strength (Pound) & Test Graph :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5309 & 4108- Graph Attached
8	Elongation at Load :	%	50	N/A	50	50	50	50.0	50	50.0	See Clause 4.8.1
	at WLL :	lbs.	15.30 - 31.25	N/A	15.48	15.33	15.45	15.45	15.48	15.44	N/A
9	Material Type & Den/Ply/TPM of Warp 1 :	Cotton	12/2	N/A	Cotton	12/2	N/A	N/A	N/A	12/2	ASTM D 3775
	Warp 2 :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Warp 3 (Rubber) :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Weft :	Cotton	24/2 or 30/2	N/A	Cotton	30/2	N/A	N/A	N/A	30/2	
	Binder :	Cotton	24/2 or 30/2	N/A	Cotton	30/2	N/A	N/A	N/A	30/2	
	Stuffer :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Lock :	Cotton	N/A	N/A	Cotton	12/2	N/A	N/A	N/A	12/2	
10	Ends in full Width :		Ends		Ends						ASTM D 3775
	Warp 1 :	N/A	117	min.	120	N/A	N/A	N/A	N/A	120	
	Warp 2 :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Warp 3 (Rubber) :	N/A	40	min.	40	N/A	N/A	N/A	N/A	N/A	
	Weft :	N/A	1	N/A	1	N/A	N/A	N/A	N/A	1	
	Binder :	N/A	18	min.	19	N/A	N/A	N/A	N/A	19	
	Stuffer :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Catch-Cord (Lock) :	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	1	
11	Weave :	N/A	Double Plain	N/A	Double Plain	N/A	N/A	N/A	N/A	Double Plain	Visual
12	Warp Yarn Filling type :	N/A	Single	N/A	Single	N/A	N/A	N/A	N/A	Single	Visual
13	Weft Yarn Filling type :	N/A	Single	N/A	Single	N/A	N/A	N/A	N/A	Single	Visual
14	Shade & Shade Code :	N/A	Brown (BRN)	N/A	Brown (BRN)	N/A	N/A	N/A	N/A	Brown (BRN)	Visual
	Spectrophotometer Average five Readings (LxAxB) :	N/A	29.80 x 1.33 x 5.20	N/A	28.71 x 1.41 x 5.02	28.68 x 1.43 x 4.98	28.74 x 1.42 x 5.04	28.72 x 1.40 x 5.01	28.69 x 1.39 x 5.02	28.71 x 1.41 x 5.01	AATCC TM 173:2015 D65/10'
	Shade Diffrence (ΔE) :	N/A	≤ 2	N/A	1.33	1.31	1.34	1.33	1.32	1.33	AATCC TM 173:2015 D65/10'

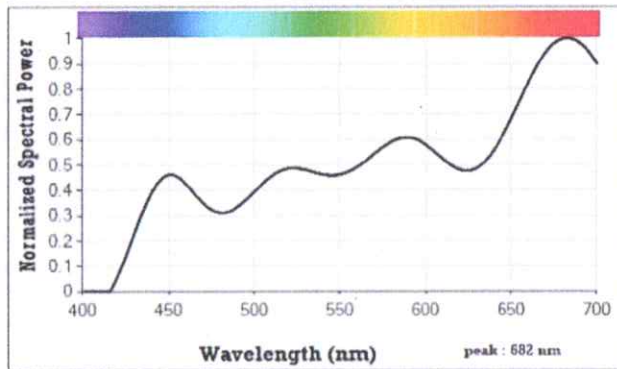
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15	Fastness To Washing (Laundering) :										
	Color Change	N/A	3-4	min.	3	N/A	N/A	N/A	N/A	3.0	AATCC 61/TEST 1A
	Colour Staining	N/A	3-4	min.	3	N/A	N/A	N/A	N/A	3.0	AATCC 61/TEST 1A
	Light	N/A	3-4	min.	4	N/A	N/A	N/A	N/A	4.0	AATCC 16 Option 1
	Rubbing (Crocking) Wet & Dry :	N/A	3 - 4	min.	3	N/A	N/A	N/A	N/A	3.0	AATCC 8
	Perspiration :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	Residual Shrinkage :	%	2.0	max.	N/A	N/A	N/A	N/A	N/A	N/A	See Clause 4.5.4
17	Melting Point of Yarn :	(°F)	N/A	min.	N/A	N/A	N/A	N/A	N/A	N/A	Visual
18	Curvature :	inch	0.25	max.	0.06	0.06	0.05	0.06	0.05	0.06	ASTM D 1776
19	pH :	N/A	5.5-9.0	N/A	6.2	6.8	N/A	N/A	N/A	6.5	AATCC 81
20	BS After Resistance to Light (Kgf) :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ASTM G 151, ASTM G 155 & PIA-TM-4108
	BS Loss % After Resistance to Light (Xenon Arc) :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ASTM G 151 & ASTM G 155
21	BS After Resistance to Heat (Kgf) :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ASTM D 1776 & PIA-TM-4108
	BS Loss % After Resistance to Heat (Oven) :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ASTM D 1776
22	Remarks :										
	Remarks :										
	Remarks :										
Over All Test Result :		Pass				Lot Size	Unit	Sampling	Lot Size/Unit	Sampling	
Prepared By (Asst. Lab)		For Viraj Syntex (P) Ltd.				Date: 8/9/26	800 or less	Mtr	2	5,001 & 22,000	5
Checked & Approved By (Lab/QC Inch.)						Date: 8/9/26	801 up to 5,000	Mtr	3	22,001 and Over	7

Smart Utility For Spectrophotometer

Save	Print	Export	Import	Send Reference to Device	Offset
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Min	Exit
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	D65/10°		
XYZ	X = 8.04	Y = 8.24	Z = 6.52
Yxy	Y = 8.24	x = 0.35	y = 0.36
	L* = 34.48	a* = 2.06	b* = 8.42
CIE	L* = 34.48	C* = 8.67	h° = 76.27
	L* = 34.48	u* = 6.61	v* = 9.4
Hunter	L = 28.71	a = 1.41	b = 5.02
	CCT = 4762 Kelvin		
	Peak Wavelength = 682 nm		
	RGB = 90,80,65		
	CMYK = 0,11,11,27.78,64.71		

Index Is Not Selected
-Available Indices-

- Whiteness Index (CIE)
- Whiteness Index (Hunter)
- Whiteness Index (Stensby)
- Whiteness Index (All)
- Yellowness Index (YI)
- Baking Contrast Unit (BCU)
- Tomato Color Index (TCI)
- Ripening Index
- Citrus Color Index (CCI)
- Citrus Number (CN)
- Citrus Red (CR)
- Coffee Roast Index
- Read Marking Paint

MATCH :		99%
ΔE^* : 1.33	ΔL^* : -1.32	
Δa^* : 0.18	Δb^* : -0.08	
Alarm Limit : 0%		

NWF-PIA-C-1192 BRN

Select Port :

COM3

Close

Single Measurement
Real Time Analysis
Find Match from Database
Color Based Grading

