



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

1	Item Name	Tape Nylon 1.0" (25.4mm) BS 1000 Pound (454 kgf) Natural			Attach Below Item Image						
2	Report No :	VSPL/TTC/NWF/004	Date :	05.08.2024							
3	Customer Name :	Viraj Syntex Pvt. Ltd.	Our Item Code :	NWF-PIA-1266 (NTU)							
4	MIL Specification No :	PIA-T-5038	Type & Class No :	IV & 1A							
5	Loom Type :	Needle Loom	Job No & Date :	Sample							
6	Sample Tested :	5	Qty/Lot Size :	15 yards							

Sr	DETAILS	Specn Requirements	Tolerance	Test Results 1			Test Result 2	Test Result 3	Test Result 4	Test Result 5	Test Results (Av)	Test Method	
1	Width (Inch) :	1.0	+ 1/32,- 1/16	0.984	25.0	mm	0.985	0.986	0.985	0.985	0.985	ASTM D 3774 Option B	
2	Weight / Meter (Oun/Yd.) :	0.50	max.	0.454	14.09	Gm	0.454	0.455	0.455	0.456	0.455	ASTM D 3776 Option D	
3	Thickness ( Inch ) :	0.030-0.040	N/A	0.031	0.80	mm	0.031	0.032	0.032	0.031	0.031	ASTM D 1777 Option 2	
4	Picks / Inch :	96.0	min.	98.0	386	dm	98	98	98	98	98	ASTM D 3775	
5	Warp Yarns / Inch :	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	5050	
6	Break Strength (Pound) & Test Graph :	1000	Required	min.	1374	624	Kgf	1370	1375	1370	1380	1374	PIA 4108 - Graph Attached
7	After Abrasion Break Strength (Pound) & Test Graph :	N/A	Required	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 BREAK :	18	min.	23.8			26.8	23.1	24.8	24.6	24.6	PIA 4108 - Graph Attached	
	at WLL :	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	
9	Material Type & Den/Ply/TPI of Warp 1 :	Nylon 66	420/1	N/A	Nylon 66	420/1	N/A	N/A	N/A	N/A	420/1	ASTM D 276/AATCC 20/ASTM D1907/Visual	
	Warp 2 :	N/A	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	N/A		
	Weft :	Nylon 66	210/1	N/A	Nylon 66	210/1	N/A	N/A	N/A	N/A	210/1		
	Binder :	Nylon 66	420/1	N/A	Nylon 66	420/1	N/A	N/A	N/A	N/A	420/1		
	Stuffer :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
10	Lock :	Nylon 66 Black	30 to 210	N/A	Nylon 66	210/1	N/A	N/A	N/A	N/A	210/1	ASTM D 3775	
	Ends in full Width :	Ends			Ends	Wt/Yd (Oun)	Wt/mtr (grm)						
	Warp 1 :	197	min.	197	0.335	10.38	N/A	N/A	N/A	N/A	197		
	Warp 2 :	N/A	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	N/A		
	Weft :	1	N/A	1	0.078	2.45	N/A	N/A	N/A	N/A	1		
	Binder :	16	min.	16	0.038	1.19	N/A	N/A	N/A	N/A	16		
	Stuffer :	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Catch-Cord (Lock) :	1	N/A	1	0.002	0.07	N/A	N/A	N/A	N/A	1			
11	Weave :	Double Plain	N/A	Double Plain			N/A	N/A	N/A	N/A	Double Plain	Visual	

12	Warp Yarn Filling type :	Single	N/A	Single	N/A	N/A	N/A	N/A	Single	Visual		
13	Weft Yarn Filling type :	Single	N/A	Single	N/A	N/A	N/A	N/A	Single	Visual		
14	Shade & Shade Code :	Natural NTU	N/A	Natural NTU	N/A	N/A	N/A	N/A	Natural	Visual		
	Spectrophotometer Average five Readings (LxAxB) :	79.76 x -1.74 x 2.99	N/A	79.24 x -1.36 x 3.95	79.49 x -1.25 x 3.69	79.16 x -1.45 x 3.86	79.09 x -1.4 x 3.69	80.5 x -1.6 x 3.51	79.5 x -1.41 x 3.74	AATCC TM 173:2015 D65/10*		
	Shade Difference (ΔE) :	≤ 2	N/A	1.81	1.18	1.08	0.98	0.86	1.18	AATCC TM 173:2015 D65/10*		
15	Fastness To Washing (Laundering) :											
	Color Change :	3-4	min.	N/A	N/A	N/A	N/A	N/A	N/A	AATCC 61/TEST 1A		
	Color Staining :	3-4	min.	N/A	N/A	N/A	N/A	N/A	N/A	AATCC 61/TEST 1A		
	Light :	3-4	min.	N/A	N/A	N/A	N/A	N/A	N/A	AATCC 16 Option 1		
	Rubbing (Crocking) Wet & Dry :	3.5	min.	N/A	N/A	N/A	N/A	N/A	N/A	AATCC 8		
	Perspiration :	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 4.6		
17	Melting Point of Yarn (F) :	473	min.	499.64	259.8	°C	N/A	N/A	N/A	499.64	AATCC 20	
18	Curvature (Inch) :	0.25	max.	0.07	1.7	mm	0.07	0.06	0.07	0.08	0.07	See Clause 4.5.3
19	pH :	5.5 - 9.0	N/A	7	7.5	N/A	N/A	N/A	N/A	7.25	AATCC 81	
20	Resistance to Light (%) :	< 25	N/A	8.8	8.7	8.6	8.4	8.5	8.6	4.5.1 and PIA-TEST METHOD-4108		
	Resistance to Heat (%) :	< 25	N/A	9.0	8.7	9.5	9.1	10.2	9.30	4.5.2 and PIA-TEST METHOD-4108		
21	Remarks :											
	Remarks :											
<b>Over All Test Result :</b>		<b>Pass</b>				<b>Lot Size (Yards)</b>	<b>Sampling</b>	<b>The Sample unit for testing shall be as follows</b>				
Prepared By (Asst. Lab )			Date :		800 or less	2	Type II, 1-1/2 inches and 2 inches			30 yards		
Checked & Approved By (Lab/QC Inch.)			Date :		801 up to 22,000	3	Type IV, 1-1/2 inches & Type VII, 1 and 2 inches			30 yards		
Doc.no : VSPL/LAB (MIL TTC)/31 REV:00/01.12.22					22,001 & over	5	All other type			15 yards		

Attach Tested Sample Cutting Here

**VIRAJ SYNTEX (PVT.) LTD**

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**TEST REPORT**

Tensile / Breaking Load & Elongation Test - Tapes/Webbings			
Report No. :	VSPL/TT/001	Date :	8/5/2024
Order / Job No.:	Viraj Syntex Pvt.Ltd.	Time :	3:06:42 PM
Item Detail :	Webbing Nylon 1.00" BS 1000 Pound	M/C Capacity (Kgf) :	20,000
Item Code :	NWF-PIA-1266 Natural	WLL(Kgf) :	N/A
Sample No. :	001	Batch No. :	Sample
Test Specification :	PIA-T-5038 (T-IV,C-1A)	Grip Distance (mm) :	150
Test Procedure No. :	PIA-T-5038 (T-IV,C-1A)	Traverse Speed (mm/min)	300
Test Discription			
The test sample shall be centrally clamped between the upper fixed grip and lower moving desired type of grips of the sample and as per required grip distance and traverse speed so that the longitudinal axis of the sample is at right angles to the edges of the grips after pretension.Please refer following Specifications for determination of Breaking Load .Elongation at break.			
Test Exceptions / Deviations , If Any :			
TEST RESULTS			
Test Parameter	Results	Required	
Tensile / Breaking Peak Load ( Kgf ) :	624	454 min.	
Elongation at Break (mm) :	238.0	N/A	
Elongation % at N/A Kgf / WLL :	N/A	N/A	
Elongation % at 624 Kgf / Peak Load :	23.8	18 min.	
TEST GRAPH			
<p>The graph plots Load (Kgf) on the y-axis (0 to 1526) against Displacement (mm) on the x-axis (0.0 to 260.0). The load increases linearly until approximately 208 mm, then reaches a peak of 624 Kgf at 238.0 mm, before dropping sharply to zero.</p>			
Final Test Results :	PASS	FAIL	
Test Comments / Remarks :			
Tested By ( Lab Assistant ) : Name ..... Signatures .....			
Checked By ( Lab/QC Incharge ) : Name ..... Signatures .....			
Doc No : VSPL/LAB/06/TM/Rev:01/20.11.23			

# Smart Utility For Spectrophotometer

Save

Print

Export

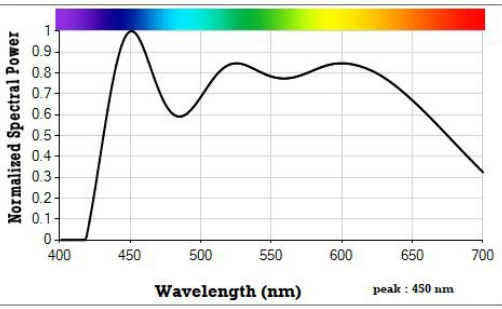
Import

Send Reference to Device

Offset

Min

Exit



D65/10°		
XYZ	X = 59.5	Y = 63.39 Z = 62.86
Yxy	Y = 63.39	x = 0.32 y = 0.34
CIE	L* = 83.65	a* = -1.43 b* = 4.46
	L* = 83.65	C* = 4.68 h° = 107.81
Hunter	L* = 83.65	u* = 0.71 v* = 6.85
	L = 79.62	a = -1.37 b = 4.02
CCT = 6053 Kelvin		
Peak Wavelength = 450 nm		
RGB = 211,209,196		
CMYK = 0,0.95,7.11,17.25		

- 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
  - Road Marking Paint

**MATCH :**

98%

$\Delta E^*$ : 1.81	$\Delta L^*$ : -1.71
$\Delta a^*$ : 0.35	$\Delta b^*$ : 0.46

**Alarm Limit : 0%**

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

E.g., Company details, operating station, sample description, batch and lot number, sample supplier details, date and time..

Select Port :

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