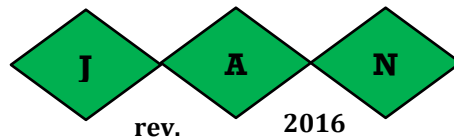




Republic of the Philippines  
Department of Science and Technology  
**PHILIPPINE TEXTILE RESEARCH INSTITUTE**  
**Physical and Chemical Testing Laboratories**

# **SCHEDULE OF TESTING FEES FOR TEXTILES, GARMENTS AND ALLIED PRODUCTS**



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Telefax: 837-1158  
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Notes:

- This brochure lists the testing services available at PTRI, the only government textile testing laboratory.
- These Testing Fees for Textiles, Garments and Allied Products are based on DOST Administrative Order No. 001 series of 2014 in compliance to Malacañan Administrative Order No. 31, s. 2012.
- The PTRI Physical and Chemical Testing Laboratories are equipped with equipment/instruments for the determination of the quality levels of fibers, slivers, rovings, yarns, fabrics, garments, carpets, geotextiles/geosynthetics and allied products including chemicals, dyes and auxiliaries used for textile production.
- Tests are performed in accordance with PNS, ISO, AATCC, ASTM, IWS, JIS Standards, etc. Test methods supplied/specified by customers are also considered.
- Testing fees are to be paid in full upon submission of test request. Students are given 20% discount of the published rates.
- Evaluation of Test Results to check conformance to given specifications is Php 140.00 per sample. Certification for RA 9242 Compliance is Php 140.00 per sample.
- Certified true copies of Test Reports may be issued only upon written request from customer. Minimum charge is Php 60.00 per page.
- Sample(s) not destroyed during testing will be retained for six (6) months only.
- Test requests are received from 8:00 am to 4:00 pm, Monday to Friday, Room 101, Ground Floor, PTRI Main Building
- Test Reports are released from 8:00 am to 4:00 pm, Monday to Friday, at Human Resource and Records Management Section, Room 314, 3<sup>rd</sup> Floor, PTRI Main Building

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# ISO/IEC 17025 ACCREDITED TESTS

## CHEMICAL LABORATORY (Chemical Testing LA-2005-067C)

TEST NAME	TEST METHOD	TEST NAME	TEST METHOD
Fiber Identification	AATCC TM 20-2011 JIS 1030-1990	Fiber Composition polyester/cotton blend	
Colorfastness		- 100% acrylic	AATCC TM 20A-2011
- Laundering	AATCC TM 61-2010 ISO 105-CO6:1994	- 100% cotton	
- Rubbing/Crocking	AATCC TM 8-2007 ISO-105-X12:2001	- 100% nylon	
- Perspiration	AATCC TM 15-2009 ISO 105-EO3:2008	- 100% rayon	
- Water	AATCC TM 107-2009 ISO 105-EO1:1994	- 100% silk	
- Sea water	AATCC TM 106-2009 ISO 105-EO2:1994	- 100% wool	AATCC TM 20A-2011 JIS L 1030-1990
Water Repellency		- 100% olefin	
- Spray Test	AATCC TM 22-2010	- 100% polyester	
Water Resistance			
- Impact Penetration	AATCC TM 42-2007		
Water Resistance			
- Rain Test	AATCC TM 35-2006		

# CHEMICAL TESTING LABORATORY

<b>COLORFASTNESS</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
1	Crocking (Rubbing) for Fabrics	ISO 105-X12 AATCC 8	210.00
2	Crocking (Rubbing) for Mats/Carpets	JIS L 0849	830.00
3	Crocking (Organic Solvent)	ISO 105-DO2 JIS L 0862	250.00
4	Chlorine Bleach	AATCC 188	1,225.00
5	Non-Chlorine Bleach	AATCC 172	1,140.00
6	Dry Cleaning per additional color	ISO 105-DO1 JIS L 0860	700.00 350.00
7	Hot Pressing	AATCC 133	460.00
8	Laundering per additional color	ISO 105-CO6 AATCC 61 JIS L 0844	515.00 155.00
9	Laundering with Chlorine per additional color	ISO 105-CO6 AATCC 61 JIS L 0844	835.00 170.00
10	Perspiration per additional color	ISO 105-EO4 AATCC 15 JIS L 0848	545.00 165.00
11	Spotting (Acid) per additional color	ISO 105-EO5 AATCC 6 JIS L 0851	180.00 55.00
12	Spotting (Alkali) per additional color	ISO 105-EO6 AATCC 6 JIS L 0852	180.00 50.00
13	Spotting (Perchloroethylene) per additional color	AATCC 157	190.00 50.00

<b>COLORFASTNESS</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
14	Spotting (Water) per additional color	ISO 105-E07 AATCC 104 JIS L 0853	175.00 50.00
15	Water (Distilled) per additional color	ISO 105-E01 AATCC 107 JIS L 0846	810.00 255.00
16	Water (Hot) per additional color	ISO 105-E08 JIS L 0845	250.00 120.00
17	Water (Sea) per additional color	ISO 105-E02 AATCC 106 JIS L 0847	840.00 255.00
18	Water (Chlorinated Pool)	AATCC 162	965.00

<b>WETTING/ABSORBENCY</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
19	Absorbency	AATCC 79	250.00
20	Water Repellency: Spray Test	AATCC 22	290.00
21	Water Resistance: Impact Penetration	AATCC 42	365.00
22	Water Resistance: Rain Test	AATCC 35	415.00

<b>OTHER CHEMICAL TESTS</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
23	Ash Content	AATCC 78	2,715.00
24	Dye Class Identification per additional color	JIS L 1065	835.00 420.00
25	Formaldehyde Content per additional sample	PTRI 80	1,470.00 635.00
26	Moisture Content	ASTM D 2495	600.00
27	pH value	AATCC 81	535.00
28	Solid Content	Oven Method	600.00
29	Sugar Content (1-3 samples)	Perkin's Method	1,645.00
30	Oil Content	ASTM D 2257	1,400.00
31	Total Cellulose Content	TAPPI Standard Method T13M	1,255.00
32	Gum Content	Das Gupta's Method	1,105.00
33	Total Pile Weight (Coated)	ASTM D 5848	1,735.00
34	Fiber Identification		
	Woven (1-2 colors/fibers) per additional color/fiber	AATCC 20 JIS L 1030	955.00 530.00
	Yarn/Knitted/Nonwoven (1-2 colors/fibers) per additional color/fiber	ASTM D 276 JIS L 1030	645.00 270.00
35	Fiber Composition		
	Without nonfibrous extraction (1-2 colors/fibers) per additional color/fiber	ISO 1833; 5088 AATCC 20A JIS L 1030	1,445.00 725.00
	Woven, Method B (3 fibers)	ASTM D 629	2,175.00
	Woven, Method C (2-3 fibers)		3,610.00
	Woven, Method D (2-3 fibers)		4,965.00
	Yarn/Knitted/Nonwoven, Method E: Point Counting		1,860.00

<b>OTHER CHEMICAL TESTS</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
36	Purity Acetic Acid	Titration Method	615.00
37	Mercerization in Cotton	AATCC 89	830.00
38	Phenolic Yellowing	ISO 105-18	1,110.00
39	Hydrogen Peroxide Determination	AATCC 102	1,670.00
40	Viscosity	Ostwald Method	695.00
41	Color Difference	AATCC EP 6	340.00
42	% Reflectance	AATCC EP6	340.00
43	Whiteness	AATCC 110	340.00
44	Yellowness	AATCC EP 6	340.00
45	Color Quality	AATCC EP 6	340.00
46	Visual Color Evaluation (Viewing Cabinet)	AATCC EP 1	55.00
47	Visual Color Evaluation (AATCC Gray Scale for Change in Color) per color	AATCC EP 1	130.00
48	Acid-insoluble Lignin Content	TAPPI T 222 om-02	1,105.00
49	Microscopical view (Cross-sectional/Longitudinal)	Microscopical method	150.00
50	Solvent Extractives	TAPPI T 204 cm-97	1,255.00
51	Backing Removal		720.00



# PHYSICAL TESTING LABORATORY

<b>FIBERS</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
52	Cotton Grade	ASTM D 5867	385.00
53	Crimp Frequency	ASTM D 3937	635.00
54	Fiber Fineness (Man-Made)	ASTM D 1577	545.00
55	Fiber Fineness (Natural)	Cut Middles Method	1,580.00
56	Numerical Mean Length	British Handbook No. 11	525.00
57	Tensile Strength (Natural Fibers)	ASTM D 1294	2,310.00
58	Tensile Strength (Flat Bundle Method)	ASTM D 1445	335.00
59	Tensile Strength (Single Strand)	ASTM D 3822	1,100.00

<b>Y A R N S</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
60	Abrasion Resistance	Procedure from Equipment Manual	775.00
61	Actual Length (1 <sup>st</sup> 5,000 meters) Additional 1,000 meters	ASTM D 204	690.00 245.00
62	Evenness	ASTM D 1425/ ASTM D 1425M	1,095.00
63	Hairiness	ASTM D 5647	1,095.00
64	Number of Filaments	Direct Measurement	320.00
65	Shrinkage <ul style="list-style-type: none"> <li>• Boiling</li> <li>• Oven</li> </ul>	ASTM D 204 (sewing thread) ASTM D 2259 (single yarns)	540.00 690.00
66	Strength and Elongation <ul style="list-style-type: none"> <li>• Single Strand</li> <li>• Skein</li> </ul>	ASTM D 204 (sewing threads) ASTM D 2256/ ASTM D 2256 M ASTM D 1578	645.00 645.00
67	Tensile Strength and Elongation (ropes, cables, cords, straps)	ASTM D 2256	840.00
68	Twist <ul style="list-style-type: none"> <li>• Combination</li> <li>• Ply</li> <li>• Single</li> </ul>	ASTM D 1423 ASTM D 1422 ASTM D 1423	760.00 370.00 630.00
69	Yarn Number <ul style="list-style-type: none"> <li>• Skein</li> <li>• Single</li> </ul> Ticket No.	ASTM D 1907 ASTM D 1059 ASTM D 3823	350.00 580.00 350.00

<b>F A B R I C S</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
70	Abrasion Resistance (Flex) <ul style="list-style-type: none"> <li>• 1<sup>st</sup> 10,000 cycles</li> <li>• additional 5,000 cycles</li> </ul>	ASTM D 3885	810.00 360.00
71	Abrasion Resistance (Taber) <ul style="list-style-type: none"> <li>• 1<sup>st</sup> 10,000 cycles</li> <li>• additional 5,000 cycles</li> </ul>	ASTM D 3884	750.00 330.00
72	Air Permeability	ASTM D 737 ISO 9237	560.00
73	Bow/Skewness	ASTM D 3882	420.00
74	Breaking Force/Strength <ul style="list-style-type: none"> <li>• Grab</li> <li>• Cut Strip</li> <li>• Raveled Strip</li> </ul>	ISO 13934-2 ASTM D 5034  ISO 13934-1 ASTM D 5035  ISO 13934-1 ASTM D 5035	630.00  735.00  1,050.00
75	Bursting Strength	ISO 2960 ASTM D 3786/ ASTM D 3786M	570.00
76	Colorfastness to Light	AATCC 16.3	2,100.00
77	Colorfastness to Actual Laundering <ul style="list-style-type: none"> <li>• Front Loading</li> <li>• Top Loading</li> </ul>	AATCC 135	770.00 580.00
78	Colorfastness to Weathering	ISO 105-BO4	2,100.00
79	Cover Factor	IWS 169	540.00

<b>FABRICS</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
80	Dimensional Change (Front Loading) <ul style="list-style-type: none"> <li>• One cycle with measurement</li> <li>• Additional cycle with measurement</li> <li>• Additional cycle without measurement</li> </ul>	ISO 6330	770.00 630.00 490.00
81	Dimensional Change (Top Loading) <ul style="list-style-type: none"> <li>• One cycle with measurement</li> <li>• Additional cycle with measurement</li> <li>• Additional cycle without measurement</li> </ul>	AATCC 135	565.00 565.00 410.00
82	Distance of Weave Repeat	Direct Measurement	215.00
83	Fabric Count	ASTM D 3887 (knitted)	225.00
	Thread Count	ASTM D 3775 (woven)	225.00
84	Number of Thread/Unit Length	ISO 7211/2 ASTM D 3775	225.00
85	Fabric Weight/Mass Per Unit Area	ISO 3801 ASTM D 3776/D 3776M	250.00
86	Fabric Width	ASTM D 3774	215.00
87	Flammability <ul style="list-style-type: none"> <li>• 45°</li> <li>• Horizontal</li> <li>• Vertical</li> </ul>	ASTM D 1230 US MVSS 302 ASTM D 6413	815.00 1,025.00 1,035.00
88	Peel Strength	ASTM D 1876	630.00
89	Pilling Resistance <ul style="list-style-type: none"> <li>• ICI Box</li> <li>• Random Tumble</li> </ul>	JIS L 1076 ISO 12945-1 ASTM D 3512 ASTM D 3512M	830.00 645.00
90	Resistance to Yarn Slippage	ASTM D 1683	630.00

<b>FABRICS</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
91	Seam Breaking Strength/ Seam Slippage	ASTM D 1683	630.00
92	Snagging Resistance (Mace)	ASTM D 3939 ASTM D 3939M	465.00
93	Stiffness	ASTM D 1388	840.00
94	Stitch Density	IWS 229	535.00
95	Stitch Length	IIC-Starfish 3	575.00
96	Streak Analysis	Procedure from Equipment Manual	675.00
97	Tearing Strength <ul style="list-style-type: none"> <li>• Elmendorf</li> <li>• Tongue</li> <li>• Trapezoid</li> </ul>	ASTM D 1424 ASTM D 2261 ASTM D 5587	395.00 1,505.00 835.00
98	Thickness	ISO 5084 ASTM D 1777	325.00
99	Type of Weave or Knit	ISO 3572	220.00
100	Wrinkle Recovery <ul style="list-style-type: none"> <li>• Angle</li> <li>• Appearance</li> </ul>	ISO 2313 AATCC 66 ISO 9867 AATCC 128	600.00 600.00
101	Yarn Number (Short Length)	ISO 7211/5 ASTM D 1059	580.00

<b>G A R M E N T S</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
102	Care Label Recommendation	ASTM D 3938	215.00
103	Dimensional Change (Front Loading) <ul style="list-style-type: none"> <li>• One cycle with measurement</li> <li>• Additional cycle with measurement</li> <li>• Additional cycle without measurement</li> </ul>	ISO 3759; 6330	770.00 630.00 490.00
104	Dimensional Change (Top Loading) <ul style="list-style-type: none"> <li>• One cycle with measurement</li> <li>• Additional cycle with measurement</li> <li>• Additional cycle without measurement</li> </ul>	AATCC 150	565.00 565.00 410.00
105	Garment Weight	Direct Measurement	265.00

<b>C A R P E T S</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
106	Construction	ASTM D 418	215.00
107	Number of Binding Sites	ASTM D 5793 IWS 139; 140	525.00
108	Pile Height	IWS 20; ASTM D 5823	215.00
109	Pile Weight Density Factor	IWS 216	640.00
110	Shrinkage	IWS 128	840.00
111	Shorn Pile Weight	ASTM D 5848	840.00
112	Total Pile Weight (Uncoated)	ASTM D 5848 IWS 21	640.00
113	Tuft Density	IWS 140	530.00
114	Tuft Withdrawal Force	IWS 202	645.00

<b>GEOTEXTILE</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
115	Apparent Opening Size	ASTM D 4751	2,480.00
116	Breaking Strength <ul style="list-style-type: none"> <li>• Grab Method</li> <li>• Toughness</li> </ul>	ASTM D 4632 ASTM D 4632	775.00 775.00
117	CBR Puncture	ASTM D 6241; ISO 12236	2,180.00
118	Mass Per Unit Area	ASTM D 5261	350.00
119	Tearing Strength (Trapezoid)	ASTM D 4533	880.00
120	Tensile Strength (Geogrids/Geonets)	ASTM D 7179	2,325.00
121	Tensile Strength (Wide-Width)	ASTM D 4595	2,180.00
122	Tensile Strength/twine	ASTM D 2256	840.00
123	Thickness	ASTM D 5199	420.00
124	Water Permittivity	ASTM D 4491	550.00
125	No. of Twines /unit length	Direct Measurement	225.00
<b>NONWOVENS</b>			
<b>No.</b>	<b>Test/Analysis</b>	<b>Method</b>	<b>Prescribed Fee (Php)</b>
126	Breaking Force/Strength (Cut Strip)	ASTM D 5035	775.00
127	Breaking Strength (Grab)	ASTM D 5034	775.00
128	Mass Per Unit Area	ISO 9073-1 ASTM D 6242	350.00
129	Stiffness	ASTM D 5732	840.00
130	Tearing Strength <ul style="list-style-type: none"> <li>• Tongue Method</li> <li>• Trapezoid</li> </ul>	ASTM D 5735 ASTM D 5733 ISO 9073-4	1,505.00 835.00
131	Thickness	ISO 9073-2 ASTM D 5729	420.00
<b>OTHERS</b>			
<b>No.</b>	<b>Other Requirements</b>		<b>Prescribed Fee (Php)</b>
132	Certified True Copy of Test Report		60.00
133	Lab Tour/person with Orientation		210.00
134	Raw Data Print Out (copy)		60.00
135	Certification for RA 9242		140.00
136	Evaluation of Test Results/sample/lab		70.00
137	Evaluation of Test Results/sample		140.00

