

Erratum

An Analysis of the Moisture-Related Properties of Hydrolyzed Polyester

ERIN MURPHY SANDERS and S. HAIG ZERONIAN,* *Division of Textiles and Clothing,
University of California, Davis, California 95616*

[article in *J. Appl. Polym. Sci.*, **27**, 4477–4491 (1983)]

Two typographical errors appeared in Tables V and IX of this article.

In Table V under the column headed Fiber, the citation for the value 75.0 should have been Ref. 22, not Ref. 20.

In Table IX the drop absorption time for the fabric with the topical finish should have read 0.06 min, not 0.6.

The tables are reprinted here with the corrections underlined.

TABLE V
Contact Angles (Degrees)^a of Water on Films, Fibers, and Yarns

Treatment	Film	Fiber	Yarn	
			Warp	Weft
<i>Polyester</i>				
None	71.1 ± 0.31	81.4 ± 0.83	70.8 ± 1.71	84.3 ± 3.36
H ₂ O, 60°C, 6 h	69.9 ± 0.35	82.6 ± 0.79	72.5 ± 4.00	63.0 ± 3.54
NaOH, 60°C, 2 h	65.0 ± 0.35	80.5 ± 1.12	34.0 ± 1.86	45.0 ± 3.00
NaOH, 60°C, 4.5 h	59.8 ± 0.55	75.9 ± 1.30	33.3 ± 1.63	38.4 ± 1.35
NaOH, 60°C, 6 h	61.5 ± 0.70	77.6 ± 1.11	34.4 ± 2.88	32.9 ± 1.13
Topical finish ^b	—	72.2 ± 1.35	26.6 ± 0.87	—
None ^c	71.0 ^d	79.0 ^e	49.0 ^e	—
		75.0 ^h		
Topical finish ^{b,c}	—		26.0 ^f	—
<i>Cotton</i>				
None	—	66.0 ± 1.45	30.7 ± 0.74	—
None ^c	—	—	30.5 ^g	—
			18.0 ^e	

^a Average and standard error of 50, 100, and 40 readings for film, fiber, and yarn respectively.

^b Nonionic polymeric hydrophile (NPH).

^c Determinations by other workers.

^d Reference 21.

^e Reference 6.

^f Reference 20.

^g Reference 16.

^h Reference 22.

TABLE IX
Moisture-Related Properties of Polyester and Cotton Fabrics

Fabric treatment	Moisture regain (%) at 59% RH, 21°C	Water retention (%)	Immersion value (%)	Drop absorption (min)
<i>Polyester</i>				
None	0.43	10.0	13.1	17.6
H ₂ O, 60°C, 6 h	0.44	12.0	11.7	20.0
NaOH, 60°C, 2 h	0.42	11.0	21.4	2.5
NaOH, 60°C, 4.5 h	0.42	10.3	23.6	0.5
NaOH, 60°C, 6 h	0.44	10.0	25.4	0.6
Topical finish ^a	0.47 ^b	10.6 ^b	17.8	<u>0.06</u>
<i>Cotton</i>				
None	6.30 ^c	47.1 ^c	69.8	0.34 ^c

^a A nonionic polymeric hydrophile (NPH).

^b Ref. 20.

^c Ref. 16.