

# Fiber property summary



Technical Bulletin 190904

Test Method	Pure Finish NatureWorks® PLA	DP Resin Treated Cotton	Treated Polyester	Leading Channeled fiber		Testing Facility	Date of Test	Report Number
Aatcc 135-01, (3) IV Aii ISO 25077 <b>Dimensional Stability to Home Laundering (L x W %)</b>	*** < 3%	* 16.8 x 2.5%	*** < 3%	*** 1.5 x 4.3%	*** Best ** Good * Not Good	SGS	02/25/02	165588
ASTM D 2724, 10.4 <b>Dimensional Stability to Steam Pressing (L x W %)</b>	*** < 2%	** < 2%	*** < 2%	*** < 2%		SGS	02/25/02	165588
AATCC 124-01, (3) IV Aii ISO 7768 <b>Appearance of Fabrics after Repeated Home Launderings</b>	*** Class: 3.5 - 4.5	** Class: 3.0 - 4.0	*** Class: 3.5 - 4.5	** Class: 3.0 - 4.0	Class: 5.0 Best Class: 1.0 Worst	SGS	02/25/02	165588
AATCC 130-00, (3) IV Aiii <b>Soil Release (Oily Stain Release)</b>	*** Class: 4.0 - 4.5	* Class: 2.0	*** Class: 4.0 - 4.5	** Class: 3.5	Class: 5.0 No Stain Class: 1.0 As Initial	SGS	02/25/02	165588
AATCC 79-00 <b>Absorbency - Disappearance of Water Drop (seconds)</b>	*** 6 seconds	* 60+ seconds	no data no data	*** 5 seconds		SGS	02/25/02	165588
DIN EN 31 092 (02/94) ISO 11 092 (10/93) <b>Buffering Capacity against Liquid Sweat (g/m<sup>2</sup>h)</b>	*** 860	* 581	*** 840	no data		Hohenstein	7/23/01	Z1.4.4241
AATCC 88C-01 <b>Crease Retention After Home Laundering</b> Not appropriate for knits	*** Grade: 3.0 - 4.0	* Grade: 1.0	*** Grade: 3.0 - 4.5	** Grade: 3.0	Grade: 5.0 Sharp Grade: 1.0 No Crease	SGS	02/25/02	165588
ASTM D3512-99 Random Tumble <b>Pilling Resistance (Class for 30 min. x 60 min. tests)</b>	*** Class: 4.5 x 5.0	*** Class: 4.5 x 4.5	no data no data	* Class: 3.5 x 1.0	Class: 5.0 No Pills Class: 1.0 All Pills	SGS	02/25/02	165588
ASTM D4970-98 Martindale <b>Pilling Resistance</b>	** Grade: 3.0	*** Grade: 4.0	no data	* Grade: 2.0	Class: 5.0 No Pills Class: 1.0 All Pills	SGS	02/25/02	165588
ASTM D5362-97a <b>Snagging Resistance</b>	*** Class: 4.0	*** Class: 4.5	no data no data	*** Class: 4.0	Class: 5.0 No Snags Class: 1.0 All Snags	SGS	02/25/02	165588
ASTM D1230-94 <b>Flammability of Clothing Textiles</b> 16 CFR Part 1610-2001, Criteria of Class I	PASS	PASS	PASS	PASS		SGS	02/25/02	165588
Dynamic Dilution Olfactometry <b>Odor Retention (Odor Concentration D/T Initial Dosing)</b> (Odor Concentration D/T After 1 Week)	*** 182 <5	no data no data no data	** 237 18	no data no data no data		OS&E	7/10/01	1159-M-00
ASTM D3787 Ball Burst For Knitted Goods <b>Bursting Strength (lb-f, daN)</b>	** 65.0 lb-f, 29.0 daN	no data no data	*** no data no data	*** 92.0 lb-f, 41.0 daN		SGS	02/25/02	165588
ASTM D5035, 1" Raveled Strip NF EN ISO 13934-1 (*) <b>Breaking Strength (L x W lb-f, L x W daN)</b>	** 57 x 35, 128 x 78	no data no data	*** 231 x 140, 103 x 62	no data no data		IFTH	4/23/02	02/2-1089
ASTM D5035, 1" Raveled Strip, NF EN ISO 13934-1 (*) <b>Elongation at Brake (L x W %)</b>	*** 48 x 46	no data no data	** 27 x 20	no data no data		IFTH	4/23/02	02/2-1089
ASTM D2261 TONGUE TEAR, NF EN ISO 13937-2 (*) <b>Tear Strength (L x W lb-f, L x W daN)</b>	** 7 x 6, 16 x 13	no data no data	*** 20 x 17, 45 x 38	no data no data		IFTH	4/23/02	02/2-1089
ASTM D434, PR EN ISO 13936-2 (*) <b>Seam Slippage Strength (W/Fx/FW lb-f, W/Fx/FW daN)</b>	*** 10 x 13, 21 x 30	no data no data	** 9 x 8, 20 x 19	no data no data		IFTH	4/23/02	02/2-1089
HOHENSTEIN (several ISO methods, refer to report) <b>Comfort vote</b>	***	*	no data	no data		Hohenstein	3/27/02	02.4.4384

(\*) These tests were run on Woven FTT filament yarn

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