308-9 Thread

				Thread						
PERFORMANCE	TEST METHOD				REQUIREMENT					
INITIAL PACKAGE / FULL PACKAG	<u>SE</u>									
Physical Properties										
					Determine S or Z T		h			
Thread Twist		ASIN	1 D1423		Report Actual Read	ings				
					Report actual numb	er of complete revo	olutions			
Thread Twist Balance		AST	M D204		(Use general lock &	stitch sewing mach	nine)			
Thread Size		ASTM	1 D1907		-0% / +10% of contr	acted Tex Count				
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
		AATCO	C 20/20A		One Fiber Only: No	Tolerance				
Fiber Content		16 CI	FR 303							
Fiber Content			ct Labeling Act		Two or More Fibers	: +/- 3% max deviat	tion from contracted f	fiber content		
					Functional Fibers i.e	e. Spandex: +/- 2%	max deviation from c	contracted fiber conter	nt	
O a la sta a tu a a a										
Colorfastness		Δςτι	1 D 204							
Colorfactages to Loundaring AND Dry Classing		Laundering Con	ditions – option		Shade Change: Gra Staining: Grade 4 m					
Colorfastness to Laundering AND Dry Cleaning	Ultra Tide ® Powder Detergent			Starning. Grade 4 III						
					Shade Change: Gra	de 4 min				
Colorfastness to Perspiration		AAT	CC 15		Staining: Grade 4 m	in				
					All Colors (except lis	sted below):				
					Dry – Grade 4 min					
					Wet – Grade 3 min					
Colorfastness to Crocking		AATC	C 8/116		Pigment Dyed/Printed, Sulphur, Indigo:					
					Dry – Grade 3 min Wet – Grade 2 min					
Colorfastness to Light	AATCC 16.3-2012 20 AFU									
		20	/		Color Change: Grad	le 4 min				
Colorfastness to Water	AATCC 107				Shade Change: Grade 4 min Staining: Grade 4 min					
Strength & Durability		ASTM	D 2256							
Thread Strength & Elongation	As received and after wetting			g	See Chart Below					
	C				ontent: Polyester Core/Cotton Wrap					
Tex Count	24		40		60	80	105	120		
Breaking Strength (lbs)		2.05		3.30		6.37	7.63	10.50		
Elongation at Break	17-23		17-23		17-28	17-28	17-28	17-28		
Below for Kohl's Reference					_					
ELKO FTK Total max	7		7		7	8	8	8		
ELKO FTK Serious max	5		5		5	6	6	6		
ub % range	3 - 5		3	- 5	3 - 5	4 - 6	4 - 6	4 - 6		
				•	tonti Bolycotor Occ					
T O	40	04			tent: Polyester Core			405	10	
Tex Count	18 1.72	21 1.80	24 2.36	30 2.99	40 4.02	60 6.29	80 8.07	105 9.58	12	
Breaking Strength (lbs) Elongation at Break	1.72	1.80	2.36	2.99	4.02	15-30	17-30	9.58	13.0	
Below for Kohl's Reference	10-22	10-22	17-23	17-23	10-20	10-00	11-50	11 30	17-7	
ELKO FTK Total max	8	8	8	6	6	6	6	6	6	
ELKO FTK Serious max	4 4		4	4	4	4	4	4	4	
lub % range	2.5 - 4.5	2.5 - 4.5	2.5 - 4.5	2.5 - 4.5	2.5 - 4.5	4 - 7	4 - 7	4 - 7	4 -	

					=					
Tex Count	18	21	24	27-30	40	45	60	70	80	105
Breaking Strength (lbs)	1.36	1.50	1.65	2.19	2.48	3.23	4.11	4.68	6.43	8.03
Elongation at Break	11 - 18	11 - 18	11 - 18	12 - 19	12 - 20	12 - 20	13-22	14-22	14-22	14-23
Below for Kohl's Reference										
ELKO FTK Total max	6	6	6	6	6	6	6	6	6	6
ELKO FTK Serious max	4	4	4	4	4	4	4	4	4	4
lub % range	3 - 7	3 - 7	3 - 7	3 - 7	3 - 7	3 - 7	3 - 7	3 - 7	3 - 7	3 - 7
	Content: Textured Polyester									
Tex Count		18		35	40		60		10	00
Breaking Strength (lbs)	1.32		2.77		2.62	2	3.94		6.	49
Elongation at Break	22	22 - 30		2 - 30	22 - 30		22 - 30		22 - 30	

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		308-9 Threac					
PERFORMANCE	TEST METHOD)	REG	UIREMENT			
Below for Kohl's Reference							
ELKO FTK Total max	1	1	1	1	1		
ELKO FTK Serious max	1	1	1	1	1		
ub % range	2 - 4	2 - 4	2 - 4	2 - 4	2 - 4		
ub % range	2 - 4	2-4	2 - 4	2-4	2-4		
		C	ontent: Tri-lobal Polyester Embroidery				
ex Count	10	18	27	40			
Breaking Strength (lbs)	0.75	1.17	2.29				
	25 - 32	25 - 32	2.29	2.60 25 - 32			
Elongation at Break Below for Kohl's Reference	23 - 32	25 - 32	20 - 27	20 - 32			
	4	4		4			
ELKO FTK Total max	1	1	1	1			
ELKO FTK Serious max	1	1	1	1	_		
ub % range	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5	1.5 - 3.5			
			Content: Polyester Air Entangled				
Tex Count	60		90	135			
Breaking Strength (lbs)	6.16		8.29	13.01			
Elongation at Break	9 - 21		12 - 19	13 - 20)		
			Content: Metallic Embroidery				
Tex Count	27			105			
Breaking Strength (lbs)	1.10			2.20			
Elongation at Break	20 - 40		25 - 45				
			•				
			Content: Polyester Embroidery				
Tex Count	21						
Breaking Strength (lbs)	1.48						
Elongation at Break			8 - 22				
ADDITIONAL COLORWAY TESTING							
	ASTM D 204						
Colorfootpoop to Loundaring AND Dry Clooping*	Laundering Conditions – op	tion 2B	Shade Change: Grade 4 min Staining: Grade 4 min				
Colorfastness to Laundering AND Dry Cleaning*	Ultra Tide ® Powder Dete		Staining: Grade 4 min				
			Shade Change: Grade 4 min				
Colorfastness to Perspiration*	AATCC 15		Staining: Grade 4 min				
			All Colors (except listed below): Dry – Grade 4 min				
			Wet – Grade 3 min				
Colorfastness to Crocking*	AATCC 8/116		Pigment Dyed/Printed, Sulphur, Indigo:				
			Dry – Grade 3 min				
			Wet – Grade 2 min				
	AATCC 16.3-2012						
Colorfastness to Light*	20 AFU						
-			Color Change: Grade 4 min				
Colorfaataaaa ta Watar*			Shade Change: Grade 4 min				
Colorfastness to Water*	AATCC 107		Staining: Grade 4 min				
	ICABLE AT ADDITIONAL COST						
Analytical Test- REQUIRED WHERE APPL							
Analytical Test- REQUIRED WHERE APPL				Negetive IK Onet Test is Desitive serves by the story of			
Analytical Test- REQUIRED WHERE APPL	Kohl's TM-5 (only for 4 year	s and up)			atan O		
Analytical Test- REQUIRED WHERE APPL		s and up)	Negative, If Spot Tes	t is Positive, proceed with	step 2		
	Kohl's TM-5 (only for 4 years		Negative, If Spot Tes	t is Positive, proceed with	step 2		
Analytical Test- REQUIRED WHERE APPL				t is Positive, proceed with <u>T</u> & Adults = 75 ppm max.			

TOXICOLOGY TESTING - REQUIRED WH	Sec. 5.3.1 (2) Method B, JIS Water Extraction Method ERE APPLICABLE AT ADDITIONAL COST	Children's 0-4T = 20 ppm max.			
Lead Content in Surface Coating - Scrapeable in each color*	CPSC-CH-E1003-09.1	Children & Adult Products ≤ 90ppm (0.009% by weight) Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing			
Total Lead in Substrate Material*	CPSC-CH-E1002-08.1/ CPSC-CH-E1001-08.1	Children's of ALL ages & Adult products ≤100 ppm (0.010% total weight) Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing			

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		8-9 read
PERFORMANCE	TEST METHOD	REQUIREMENT
Phthalates in each plasticized part/material such as PVC, Vinyl*	CPSC-CH-C1001.09.3	Children's & Adult Products (Coatings Shall be tested) < 0.1% (1000 ppm) in each part of DEHP, BBP, DBP, DINP, DIDP, DnHP, DnOP, DIBP, DnPP, DCHP Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing
Soluble Heavy Metals* Applies to Children's Toys	ASTM F 963-17	Children's Toys = Defined as a consumer product designed or intended by the manufacturer for a child, for use by the child when the child plays. Required for children's toys of ALL agesMercury – 60 ppmBarium – 1000 ppmAntimony – 60 ppmCadmium – 75 ppmArsenic – 25 ppmChromium – 60 ppmSelenium – 500 ppmLead – 90 ppm

(*) asterisk= ALL COLORWAYS MUST BE TESTED

ALL COMPONENTS MUST BE TESTED FOR TOXICOLOGY

Basic Submission – An individual thread style. The basic submission contains the entire range of sizes for that style. Submit in a dark color.

Minimum Sample Size Necessary for Testing

Intial Package: 1 cone (500 yards) of darkest colorway

Additional Colorway: 1 cone (300 yards) per colorway

**Please refer to Kohl's preferred third party labs for individual and optional testing pricing

Toxicology Testing

Consult with approved lab for the number of samples

Turn Around Time = 6 working days

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISION / APPROVED BY
208.4	 Thread Shrinkage Test – REMOVED Breaking Strength (Spun Polyester Tex 30) – Changed requirement from 1.19 to 2.19. Colorfastness to Laundering – Specified laundering condition to Option 2B – Non-Chlorine Bleach. 	Nov. 2008/Ro Jain
308-1 308-2	 Lead Content in Surface coating – Updated test method to CPSC-CH-E1003-09 Lead in Substrate – Updated test method to CPSC-CH- E1002/CPSC-CH-E1001-08 and requirement <100 ppm from spring 2011 	Nov. 2009/Ro Jain
308-3	 Child Laundening & Dry Cleaning – Added Ontal to Hae Detergent. Lead in Surface Coating – Updated method to CPSC-CH- E1003-09.1. Added Adult requirement, <600 ppm. Total Lead Substrate – Updated method to CPSC-CH- E1002-08.1/CPSC-CH-E1001-008.1. Added Phthalates & Heavy Metals to protocol. Thread Size – Changes requirement from +/-5% to - 0%/+10%. 	Nov. 2011/Amy Her
308-4	 Lead in Substrate test – Starting Spring 2013, test is required on Adult products. Toxicology tests required on both Children & Adult products. Added Fiber Content test. Updated price test. 	Sept. 2012/ Vinoth Deenadayalan
308-5	 Removed "starting spring 2013" statement Added "coatings shall be tested" statement to the Phthalates test Heavy Metals – updated test method to ASTM F963-11 C/f to Light – Updated method to AATCC 16.3-2012 	May 2013/ Vinoth Deenadayalan
308-7	Removed pricing for testing/took out Intertek/added approved lab statement	October 6th 2014/Nov. 31 2014/Leah Gross-Hutchison
308-8	Added Formaldehyde	December 4th 2014- Michelle Zydek
308-9	Updated phthlates requirements Updated Soluable Heavy Metals version number	October 2018-Deppisch

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