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## COMMERCIAL AVAILABILITY REQUEST

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- - PUBLIC VERSION - -

November 28, 2011

Ms. Kim Glas  
Chair, Committee for the Implementation of Textile Agreements  
Office of Textiles and Apparel  
U.S. Department of Commerce  
14<sup>th</sup> and Constitution Ave., NW  
Washington, DC 20230

Re: Commercial Availability Request Under Section 203(o)(4) of the Dominican Republic-Central America-United States Free Trade Agreement Implementation Act

Dear Ms. Glas,

On behalf of Hansoll Textile, Ltd. (“Hansoll”), and pursuant to Section 203(o)(4) of the Dominican Republic-Central America-United States Free Trade Agreement (“CAFTA-DR”) Implementation Act and the Final Procedures set forth in 73 Fed. Reg. 53200 (September 15, 2008), Sorini, Samet & Associates, LLC (“SS&A”) requests that the fabric described herein (“subject fabric”) be added to the list in Annex 3.25 of CAFTA-DR in an unrestricted quantity.

### **I. Detailed Product Description**

Detailed product specifications are listed in metric measurements below. During due diligence inquires, potential suppliers were provided with the same specifications converted into English measurements, which can be found in Appendix I to this Request.

<b>Fabric Description:</b>
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<b>Circular knit Three End Fleece 100% Polyester - Solid</b>
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All values listed in metric measurements		Low parameter	High parameter	
Fiber content	Polyester	100%	100%	
Yarn size	Face yarn  (two intermingled 100% polyester yarns, high-shrinkage)	#1 Denier	46	54
		#1 Filament	144	144
		#2 Denier	27	33
		#2 Filament	12	12
	Tie yarn  (100% polyester)	Denier	68	80
		Filament	72	72
	Fleece yarn  (100% polyester)	Denier	140	160
		Filament	144	144
Weight (grams per square meter)		225	265	
Width (centimeters)		140	170	
Quantity (square meters per month)		[***]	[***]	
Machine gauge		28		
Coloration		Piece dye, with brushing		
HTSUS		6001.92.0000		
Performance criteria	<ol style="list-style-type: none"> <li>1. Durable water repellent (C6), AATCC test method 22 Spray Test, 80% Coverage/20 Washes</li> <li>2. Fleece side: Brushed, Sheared, Tumbled - ASTM D6797 =&gt; 100 PSI</li> <li>3. Course per Centimeter: 19.3 - 20.1. This indicates # of loops in one centimeter width direction.</li> <li>4. Wales per Centimeter: 18.5 - 19.3. This indicates # of loops in one centimeter longitudinal direction.</li> <li>5. Spirality: 3 times wash (AATCC test method 179) = &lt;5%</li> <li>6. Pilling: ASTM D-3512=4</li> <li>7. Snagging Length &amp; Width: 300 cycles = 3 ASTM D3939</li> <li>8. Air Permeability: ASTM D737 = 110 ~120 (initial) CFM</li> <li>9. CIO value (thermal transmittance) = 0.45 ~ 0.60 U2/CIO (ASTM D1518)</li> <li>10. AATCC test method 135 - test for shrinkage. Length &amp;</li> </ol>			

	width would be measured for shrinkage/spreading – not to exceed +/-5% 11. No colorfastness values under 2.5 (AATCC test method 8 – colorfastness to crocking)
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## II. Quantity

[\*\*\* to \*\*\*] square meters per month.

## III. Due Diligence

SS&A made the initial inquiries to potential suppliers of the subject fabric in the CAFTA-DR region. When a potential supplier expressed interest in supplying the subject fabric, Hansoll continued the dialogue directly on a business-to-business basis. The due diligence efforts did not result in identifying any parties in the CAFTA-DR region that were able to supply the subject fabric.

One company, Textiles Del Sur Internacional, S.A. (“Textisur”), engaged Hansoll in serious dialogue regarding the ability to supply the subject fabric. Textisur had not produced the subject fabric in the past, and an attempt to develop the fabric was unsuccessful.

The list of potential suppliers was compiled through (1) SS&A’s and Hansoll’s experience in three prior commercial availability petitions addressing knit fabrics, (2) through the 2011 Davison’s Textile Salesman’s Blue Book, and (3) through the contact mechanisms of U.S. and Central American textile and apparel trade associations.

A full account of correspondence is included in Appendix III to this document.

## U.S. ASSOCIATIONS

**Association:** **American Manufacturing Trade Action Coalition, AMTAC**  
**Contact:** Sara Beatty, Director of International Trade:  
sbeatty@amtacdc.org  
**Address:** 910 16th St. NW, Washington, DC 20006  
**Date Contacted:** September 30, 2011  
**Nature of request:** Inquiry to members’ ability to supply subject fabric, and request for potential suppliers’ contact information.  
**Sample Provided:** No  
**Reply and Date:** September 30, 2011: Association will circulate to the membership on Monday, Oct. 3.

**Association:** **National Council of Textile Organizations, NCTO**  
**Contact:** Mike Hubbard, Vice President: mhubbard@ncto.org

Address: P.O. Box 99 – Gastonia, NC 28053  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to members’ ability to supply subject fabric, and request for potential suppliers’ contact information.  
Sample Provided: No  
Reply and Date: September 30, 2011: NCTO responded that it would distribute to membership.

**Association: National Textile Association, NTA**

Contact: David Trumbull, Director – Members Services  
dtrumbull@nationaltextile.org  
Address: 6 Beacon Street, Suite 1125, Boston, MA 02108  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to members’ ability to supply subject fabric, and request for potential suppliers’ contact information.  
Sample Provided: No  
Reply and Date: September 30, 2011: NTA responded that it would distribute to membership.

**DR/CENTRAL AMERICA ASSOCIATIONS**

**Association: Honduran Manufacturers Association**

Address: Edificio Yde Canahuati 3er y 4to Piso, Avenida Circunvalacion, S.O., San Pedro Sula, Cortes, Honduras, C.A.  
Contact: Astrid Barnica, Client Services:  
servicioalcliente@ahm-honduras.com  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry into members’ ability to supply subject fabric, and request for potential suppliers’ contact information.  
Sample Provided: No  
Reply and Date: No response from association.

**Association: Nicaraguan Textile & Apparel Manufacturers Association (ANITEC)**

Address: Zona Franca “Las Mercedes” km 12 ½ Carretera Notre Managua Nicaragua  
Contact: Dean Garcia Foster, Executive Director: director@anitec.net  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry into members’ ability to supply subject fabric, and request for potential suppliers’ contact information.  
Sample Provided: No  
Reply and Date: No response from association.

**Association: Camara de la Industria Textil y de la Confeccion de El Salvador (CAMTEX)**

Address: Calle Liverpool y Calle Roma, edif. ASI. Col. Roma  
San Salvador, El Salvador  
Contact: Patricia Figueroa, Managing Director:  
direccion@camtex.com.sv  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry into members' ability to supply subject fabric, and  
request for potential suppliers' contact information.  
Sample Provided: No  
Reply and Date: No response from association.

**Association: Costa Rican Chamber of Textiles**

Contact: Annia Sequra, Director: asegura@textilescr.com  
Address: Apartado 1512 1002 Pase de Estudiantes San Jose, Costa Rica  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry into members' ability to supply subject fabric, and  
request for potential suppliers' contact information.  
Sample Provided: No  
Reply and Date: No response from association.

**Association: Asociación Dominicana de Zonas Francas, ADOZONA**

Contact: Jose Torres, Executive Director, adozone@codetel.net.do  
Address: AV. Sarasota #20, 4to. Piso, Torre Empresarial AIRD,  
Apartado Postal 3184 Santo Domingo, R.D.  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry into members' ability to supply subject fabric, and  
request for potential suppliers' contact information.  
Sample Provided: No  
Reply and Date: No response from association.

**Association: Asociación de la Industria de la Vestuario y Textiles,  
VESTEX**

Contact: Luis Oscar Estrada, Manager: lestrada@apparel.com.gt  
Address: 15 Avenida 14-72 zona 13 2ndo. Nivel Guatemala, Guatemala  
C. A 01013  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry into members' ability to supply subject fabric, and  
request for potential suppliers' contact information.  
Sample Provided: No  
Reply and Date: No response from association.

**UNITED STATES**

**Company: Elastic Corporation of America (Premier Narrow Fabrics)**

Contact: Harry Cohen, Sales Contact: hcohen@premiernf.com  
Address: 455 Hwy. 70, Columbiana, AL 35051

Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Follow-up: October 20, 2011  
Reply and Date: No reply from company.

**Company: Polartec**

Contact: Jim Zeiba, Sales Contact: zeibaj@polartec.com  
Address: 46 Stafford Street, Lawrence, Massachusetts 01841  
Date Contacted: October 26, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Reply and Date: October 27, 2011: Polartec replied that they do not produce three-end fleece.

**Company: Swisstex**

Contact: Keith Dartley, President: keith@swisstexdirect.com  
Website contact: info@swisstex-ca.com  
Address: 13660 S. Figueroa St. Los Angeles, CA 90061  
Date Contacted: October 20, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Reply and Date: October 26, 2011: Swisstex replied that they are evaluating the fabric specs and would respond soon.  
Reply and Date: October 26, 2011: Swisstex replied that they cannot produce the fabric.

**EL SALVADOR**

**Company: Exportadora Textufil S.A. de C.V.**

Contact: Hector Rico, Sales Contact: hector@textufil.com  
Elias Jorge Bahaias, General Manager: info@textufil.com  
Address: Blvd Del Ejercito Nacional y 12 Av Sur, Soyapango  
San Salvador, El Salvador, C.A.  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Follow-up: October 20, 2011  
Reply and Date: No reply from company.

**Company: I.C.A.T., S.A. de C.V**

Contact: Elsa Leticia Rivera, General Manager:  
icatsa@navegante.com.sv

Address: Zona Industrial Plan de La Laguna, Poligono G, lote 2, El Salvador  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Follow-up: October 20, 2011  
Reply and Date: No reply from company.

**Company: Industrias St. Jacks, S.A. de C.V.**

Contact: Sergio Siman, Sales Contact: ssiman@stjacks.com  
Address: Zona Industrial La Laguna Antiguo Cuscatlan, Apto 2609  
La Libertad, El Salvador  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Reply and Date: October 10, 2011: Given the fiber content, St. Jacks referred Nemtex, Swistex, Textufil, and Pettenati.

**Company: Nemtex, S.A. de C.V.**

Contact: Francisco Miguel, Sales Contact: f.m.reinhardt@nemtex.com  
Address: Calle Antigua A San Antonio Abad, San Salvador, El Salvador  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Reply and Date: October 7, 2011: Company cannot supply the fabric.

**Company: Ocean Sky Int.**

Contact: Ken Tai, Sales Contact: ken\_tai@oceanskyintl.com  
Address: Zona Franca Internacional, Edificio No. 2, KM 28.5,  
Carretera a Comalapa, Olocuilta, La Paz, El Salvador  
Nature of Request: Inquiry to ability to supply subject fabric.  
Date Contacted: September 30, 2011  
Sample Provided: No  
Follow-up: October 7, 2011  
Reply and Date: October 7, 2011: Company does not make the subject fabric.

**Company: Pettenati Centro America S.A. de C.V.**

Contact: Claudia Villacorta, Customer Service Coordinator Commercial  
Department: cvillacorta@pettenati.com.sv  
Address: KM 42 Carretera a Santa Ana Coatepeque, Aanta Ana, El Salvador  
Date Contacted: September 30, 2011

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Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Reply and Date: October 4, 2011: Pettenati claims to be able to supply the subject fabric.  
Reply and Date: October 19, 2011: Hansoll requests specific information regarding Pettenati's experience producing the subject fabric or experience producing other circulate knit three-end fleece fabric, and also requested information regarding Pettenati's equipment and proposed development process for the fabric if they had not before produced the fabric. Hansoll also sent pictures of the back and front face of each fabric (see Appendix II).  
Follow-up: October 25, 2011: Hansoll followed up on its previous email.  
Follow-up: November 15, 2011  
Follow-up: November 18, 2011  
Reply and Date: No response from company.

**Company: Rayones de El Salvador, S.A. de C.V.**

Contact: Oscar Safie, Sales Contact:  
oscar-safie@rayones-hilaexport.com.sv  
Address: Km. 11 Carr Panamericana, Ilopango, San Salvador, El Salvador  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Follow-up: October 20, 2011  
Reply and Date: October 20, 2011: Rayones responded that they only make two-end fleece.

**GUATEMALA**

**Company: Fabrica La Roca**

Contact: Website contact form: <http://www.flaroca.com/inicio.cfm>  
Jorge Alejandro Arnau, Sales Contact: arnaujorge@gmail.com  
Address: KM 7.5 Ruta al Atlántico Zona 18, Guatemala 01018 C.a., Guatemala  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 20, 2011  
Reply and Date: October 20, 2011: Fabrica la Roca replied that they do not have the machinery to make the fabric.

**Company: Hilos Y Telas**



Contact: Christian Signoret, CEO: csignoret@hilosytelas.com  
Faxed inquiry to company: (305) 438-1928 (Miami)  
Address: 34 Calle 7-42 Zona 11, Colonia Las Charcas, Guatemala,  
Guatemala  
2125 Biscayne Blvd., Suite 100 Miami, FL 33137  
Date Contacted: September 30, 2011(fax)  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 20, 2011 (email)  
Reply and Date: October 21, 2011: Hilo y Telas replied that they cannot supply  
three-end fleece.

**Company:** **Imperialtex**

Contact: Carla Robles, Sales Contact: carla.robles@imperialtex.com  
Address: Calzada Roosevelth 34-21 zona 11, Guatamala  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: Yes  
Reply and Date: September 30, 2011: Imperialtex sent fabric specifications to  
the production plant. Production plant confirms ability to  
produce three-end fleece fabric. Plant would like to analyze  
samples of the subject fabric.  
Reply and Date: October 4, 2011: SS&A provides Imperialtex photographs of  
the back and front face of the subject fabric, and SS&A offers  
to send physical samples if photographs are not sufficient for  
analysis.  
Reply and Date: October 4, 2011: Imperialtex says it will notify SS&A if  
physical samples will be necessary.  
Follow-up: October 19, 2011: Follow up regarding status of analysis.  
Reply and Date: October 19, 2011: Imperialtex requests physical samples.  
SS&A sends physical samples to Imperialtex.  
Follow-up: October 26, 2011: UPS confirms delivery of samples to  
Imperialtex. SS&A follows up with Imperialtex to ask for  
analysis of samples.  
Follow-up: November 14, 2011  
Follow-up: November 17, 2011  
Reply and Date: No response from company.

**Company:** **Industrias Liztex**

Contact: Saul Mishaan, Sales Contact: saul@liztex.com  
Address: Parques del Lago Km 30.5, Ruta al Pacifico Amatitlan,  
Guatemala  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No

Follow-up: October 7, 2011  
Reply and Date: October 7, 2011: Company can only do two-end fleece.

**Company: Parktland**

Contact: Bryan Quan, General Manager: bquan@parktland.com  
Address: 17 Calle 5-36 Zona 1, Guatemala  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Reply and Date: September 30, 2011: Cannot supply the fabric.

**Company: Tejidos Corporativos**

Contact: Tony Malouf, Sales Contact:  
ramalouf@tejidoscorporativos.com  
Address: Km. 18.5 Carretera al Club Mayan Golf, Villa Nueva,  
Guatemala  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Follow-up: October 20, 2011  
Reply and Date: No reply from company.

**Company: Textiles Del Sur International, S.A./Monte Textil**

Contact: Juan Carlos Castaneda, Manager: juancarlos@textisur.com  
Address: KM. 18.5 Carretera Al Mayan Golf Club, Villa Nueva,  
Guatemala  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: Yes  
Follow-up: October 7, 2011  
Reply and Date: October 7, 2011: Textisur claims to be able to supply the  
subject fabric.  
Meeting Date: October 11, 2011: Hansoll meets with Textisur in Guatemala,  
where among other business Hansoll inquires about Textisur's  
capability to supply the subject fabric. Textisur reaffirms claim  
to be able to supply subject fabric working with a contract  
knitting mill, [[[\*\*\*]]]. Textisur says sample development will  
take three weeks.  
Reply and Date: October 19, 2011: Hansoll asks that Textisur proceed with  
development of samples. Also, Hansoll requests specific  
information regarding Textisur's experience producing circular  
knit three-end fleece fabric of 100% polyester, and asks for  
information regarding Textisur's equipment and proposed  
development process for the fabric, including contractors.

Reply and Date: October 19, 2011: Textisur says it is developing the sample, and will be ready by end of next week.

Follow-up: November 9, 2011: Hansoll asked about the status of sample development.

Reply and Date: November 9, 2011: Textisur replied that the sample would be ready at the end of the week.

Reply and Date: November 11, 2011: Hansoll asked what time they could pick up the sample from Textisur.

Reply and Date: November 14, 2011: Textisur replied that the sample would be ready today, and asked how many yards are needed by Hansoll.

Reply and Date: November 14, 2011: Hansoll replied that they need 2 sets of ½ yard to review, and asked if it could be picked up today.

Reply and Date: November 14, 2011: Textisur replied that the development department had a problem with the fabric, and will have another sample ready by tomorrow.

Reply and Date: November 16, 2011: Textisur replied that the first trial development was not good, and they will have to repeat the process, and would let Hansoll know the estimated completion time tomorrow.

Reply and Date: November 18, 2011: Hansoll thanked Textisur for the status update.

Reply and Date: November 21, 2011: Hansoll speaks with Textisur via telephone regarding development of the subject fabric. Hansoll sends an email to follow-up on phone conversation.

Follow-up: November 22, 2011

Reply and Date: November 22, 2011: Textisur replies that they are running the final test today.

Follow-up: November 23, 2011

Reply and Date: November 23, 2011: Textisur replies that they cannot supply the fabric.

**Company: Textiles Perfecta**

Contact: Alberto Zimeri, Manager: textiles@textilesperfecta.com  
Address: 1 avenida 33-26 zona 12, Colonia El Carmen, Guatemala City, Guatemala  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Reply and Date: September 30, 2011: Cannot supply the fabric.

**HONDURAS**

**Company: Caracol Knits**

Contact: Denisse Castellanos, General Manager:  
dcastellanos@caracolknits.com

Address: Zona Libre El Caracol, Km 200 carretera a Tegucigalpa,  
Honduras  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Follow-up: October 20, 2011  
Reply and Date: No reply from company.

**Company: Elcatex**

Contact: Karla Pineda, Product Development Manager:  
karla.pineda@elcatex.com  
Address: Elásticos Centroamericanos Y Textiles Zona Libre Elcatex  
Choloma, Cortes, Honduras  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Reply and Date: October 6, 2011: Company does not work three end fleece.

**Company: Roman Knit Honduras, S.A. (RKH)**

Contact: Wilfredo Modenessy: wmodenessy@rkhsa.com  
Guillermo Gutierrez, Sales Contact: ggutierrez@rkhsa.com  
Address: Green Valley Industrial Park, Lote 7B, Km. 23, Quimistan  
Santa Barbara, Honduras  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Follow-up: October 20, 2011  
Reply and Date: No reply from company.

**Company: Woong Chun Honduras, S.A.**

Contact: Luis Ryu, Sales Contact: Honduras@woongchun.com  
Brian Kwon, Sales Contact: briankwon@woongchun.com  
Address: Km. 19.5, Carretera al Occidente, Naco Santa Barbara,  
Honduras  
Date Contacted: September 30, 2011  
Nature of Request: Inquiry to ability to supply subject fabric.  
Sample Provided: No  
Follow-up: October 7, 2011  
Follow-up: October 20, 2011  
Reply and Date: No reply from company.

As a result of these inquiries, SS&A and Hansoll do not believe that the subject fabric is available in the region and we request that it be added to Annex 3.25.

#### **IV. Substitutable Products**

The subject fabric has a look and feel that Hansoll has contracted to meet the order requirements of its customers. The particular look and feel is achieved through the particular fabric specifications described. Fabrics of other fibers, yarn types, and that do not meet the performance criteria, cannot substitute the requested fabric.

SS&A and Hansoll are neither aware of any supplier in the CAFTA-DR region that produces a substitutable fabric, nor did any potential suppliers offer to supply a substitutable fabric during the due diligence process.

#### **V. Closing**

If you have any questions or require further information with regard to this request, please contact Keith Jenkins at (202) 393-4481 x201, or [kjenkins@ssa-dc.com](mailto:kjenkins@ssa-dc.com).

Sincerely,



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Keith A. Jenkins  
Senior Director

November 28, 2011

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Date

**APPENDIX I**

[\*\*]

<b>Fabric Description:</b>				
<b>Circular Knit Three End Fleece, 100% Polyester</b>				
All values listed in English measurements			Low parameter	High parameter
Fiber content	Polyester		100%	100%
Yarn size	Face yarn (two intermingled 100% polyester yarns, high-shrinkage)	#1 Denier	166.6	195.7
		#1 Filament	144	144
		#2 Denier	272.7	333.3
		#2 Filament	12	12
	Tie yarn (100% polyester)	Denier	112.5	132.4
		Filament	72	72
	Fleece yarn (100% polyester)	Denier	56.3	64.3
		Filament	144	144
Weight (ounces per square yard)			6.6	7.8
Width (inches)			55	67
Quantity (yards per month)			[**]	[**]
Machine gauge			28	
Coloration			Piece dye, with brushing	
Performance criteria	<ol style="list-style-type: none"> <li>1. Durable water repellent (C6), AATCC 22 Spray Test, 80% Coverage/20 Washes</li> <li>2. Fleece side: Brushed, Sheared, Tumbled - ASTM D6797 =&gt; 100 PSI</li> <li>3. CPI: 49 ~ 51</li> <li>4. WPI: 47 ~ 49 (include range)</li> <li>5. Spirality: 3 times wash (AATCC-179) = &lt;5%</li> <li>6. Pilling: ASTM D-3512=4</li> <li>7. Snagging Length &amp; Width: 300 cycles = 3 ASTM</li> </ol>			

	<p>D3939</p> <ol style="list-style-type: none"><li>8. Air Permeability: ASTM D737 = 110 ~120 (initial) CFM</li><li>9. CIO value (thermal transmittance) = 0.45 ~ 0.60 U2/CIO (ASTM D1518)</li><li>10. AATCC-135 L &amp; W = +/-5%</li><li>11. No colorfastness values under 2.5</li></ol>
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[\*\*\*]

**APPENDIX II**

Back  
[\*\*\*]

Front  
[\*\*\*]



**APPENDIX III**

[\*\*\*]