

## Cleaning Method on 100% PLA Knit Fabric

Ne 24/1, 18 cut, single jersey knit

### AATCC Test Method 135-1995 (laundering)

#### washing conditions

Normal/Cotton Sturdy cycle  
Hot water setting  
(actual = 43.3° C)  
Water level = 18 ± 1 gal  
Agitator speed = 179 ± 2 spm  
Washing time = 12 min  
Spin speed = 645 ± 15 rpm  
Final spin time = 6 min

#### drying conditions

Tumble dry, Cotton Sturdy  
High setting, 66 ± 5° C  
(actual exhaust = 60° C)  
Dry time = 20 min  
Cool down time = 10 min

### AATCC Test Method 158 (drycleaning)

#### drycleaning conditions

Commercial rotating cage type machine  
(cleaning g-factor 0.5-0.8; extraction  
g-factor 35-120)  
Perchloroethylene solvent  
(30 ± 3° C)  
Inlet dry temp = <80° C  
outlet dry temp = <60° C  
Finish treatment performed (pressing)  
until no wrinkles showed

laundering results on 100% PLA knit fabric (Ne 24/1, 18 cut, single jersey knit)						
Test	Original	1 x MW	25 x MW	50 x MW	75 x MW	100 x MW
Bursting Strength (lb-f)*	45.4	51.8	52.9	53.1	49.0	49.4

\* ASTM Test Method D  
3787

drycleaning results on 100% PLA knit fabric (Ne 24/1, 18 cut, single jersey knit)					
Test	Original	1 x DC	15 x DC	25 x DC	50 x DC
Bursting Strength (lb-f)*	45.4	61.2	63.8	54.1	55.4

\* ASTM Test Method D  
3787

## Summary of PLA Fabric Cleaning

The bursting strength dropped off slightly at the 75<sup>th</sup> laundry measurement and the 25<sup>th</sup> drycleaning measurement. The drycleaned samples show higher bursting strength as compared to the laundered samples.

No significant change in molecular weight or basis weight occurred after the laundry or drycleaning regimes, indicating minimal removal by solvent or degradation by drycleaning.

Ingeo Worldwide Offices  
Amsterdam, Hong Kong, London,  
Milan, Minneapolis, New York and Tokyo



[www.ingeofibers.com](http://www.ingeofibers.com)

### Contact

1 800 66 IN GEO (USA only)  
+1 989 633 1746 (Worldwide)

Ingeo and the EcoPLA design are trademarks of NatureWorks LLC © 2005  
15305 Minnetonka Blvd., Minnetonka MN 55345  
GSFIB005092005V2

No freedom from any patent of NatureWorks LLC or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, NatureWorks LLC's customers are responsible for determining whether the products and information in this document are appropriate for the customer's use and for ensuring that the customer's workplace and disposal practices are in compliance with applicable laws and regulations. NatureWorks LLC assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN: ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.