

## 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.

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