

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2011

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ClientType: Cleaning Equipment Mfr

ProjectNumber: Project #1

Substrates: Textile

PartType: Coupon

Contaminants: Dirt

Cleaning Methods: Mechanical Agitation

Analytical Methods: Gravimetric, Visual, Timing

Purpose: To evaluate the pet hair removal process of lint roller tool

Experimental Procedure: Uniform application process:  
Take 0.0150 (+/- 0.0015) g of cat hair  
Pull hair clump apart into smaller fibrous bundles  
Place the bundles evenly across the 83 sq in surface, focusing hair application within center 3.5 inch path  
A plastic bag is then passed over the surface to better distribute the hair and impart static charge to the surface and hair

Hair removal process:  
Weigh uncovered lint roller tape  
Pass the roller across the surface to complete one cycle (up and back)  
Weigh the roller to determine hair collection  
Due to some surface materials, weights may exceed total hair weights as the roller may remove some of the fabric during the process  
Repeat Uniform application process and the Hair removal process for the initial tape piece until no hair is removed by the soiled lint roller tape  
Record total number of hair removal passes completed

Agitator-hair removal process:  
Use the uniform soiled process  
Weigh uncovered lint roller tape  
Pass the agitator across the surface for a half cycle  
Pass the roller across the surface to complete cycle  
Weigh the roller to determine hair collection  
Due to some surface materials, weights may exceed total hair weights as the roller may remove some of the fabric during the process  
Repeat Uniform application process and the Hair removal process for the initial tape piece until no hair is removed by the soiled lint roller tape  
Record total number of hair removal passes completed

Agitator-hair removal process 2nd option:  
Use the uniform soiled process  
Weigh uncovered lint roller tape  
Pass the agitator across the surface for a half cycle using four to five short movements of the agitator  
Pass the roller across the surface to complete cycle  
Weigh the roller to determine hair collection  
Due to some surface materials, weights may exceed total hair weights as the roller may remove some of the fabric during the process  
Repeat Uniform application process and the Hair removal process for the initial tape piece until no hair is removed by the soiled lint roller tape  
Record total number of hair removal passes completed

Results: Fleece Surface  
Evaluation of the Evercare classic roller showed that an individual section of the lint tape was completely used up within 5 cleaning cycles. The Ezpeel unit approached 6 cycles and the comparative product was around 4. When using the multiple short strokes across the surface, the agitators (both the nubs and wave) increased the number of cleaning cycles to more than 10 cycles

Conclusions: Both the supplied agitator handles were found to increase the life of a single piece of the tape when compared to using the tape alone.  
Nub: >2X (5 vs 10+)  
Wave: >2X (5 vs 10+)

Chair Surface  
Evaluation of the Evercare classic roller showed that an individual section of the tape was significantly used up within 2-3 cleaning cycles with a lot of dirt left behind on the fabric after the first cycle. The Ezpeel unit was effective through 3 cycles. The comparative product had the most passes at 4. When using the multiple short strokes across the surface, the nub and wave agitator increased the number of

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cleaning cycles to 6 for the Ezpeel tape. Not a lot of extra soil was collected from the agitator pass across the chair fabric.

Summary:

Conclusion:

Both the supplied agitator handles were found to increase the life of a single piece of the tape when compared to using the tape alone.

Nub: 2X (3 vs. 6)

Wave: 2X (3 vs. 6)