**Monsanto**

FROM (NAME & LOCATION) N. W. Touchette - St. Louis Organic Research

DATE March 12, 1970

SUBJECT WEYMOUTH ART LEATHER CO.

REFERENCE

TO : G. W. Spears
GSPEA

cc: M. W. Farrar Res.
J. R. Darby Res.
W. F. Waychoff WWAYC
J. K. Lilly JLILL
C. Paton CPATO
C. P. Farley/P. R. Graham/
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J. A. Cannon Res.
A. W. M. Coaker Res.
R. H. Mills Res.
D. L. Mellon Evere

During my visit to Weymouth in February, we received four lab prepared samples of coated cloth intended for a gym mat application. These were evaluated in the two-foot tunnel with the following results:

| | | Flame Spread |
|---|---|---|
| P-3 | (Normal PVC on nylon) | 84 |
| P-4 | (FR PVC plus back coat) | 69 |
| L-1 | (FR PVC on rayon) | 32 |
| L-2 | (FR PVC on nylon) | 85 |

When these results were reported to Weymouth by Dave Mellon, Stevenson was confused and disappointed. Since then I have talked with him and obtained further information.

The flame retarded PVC used on P-4, L-1 and L-2 was the same:

| | | |
|---|---|---|
| PVC | 100 | |
| S-148 | 45 | |
| Cereclor 52 | 15 | |
| $Sb_2O_3$ paste | 10 | (70% $Sb_2O_3$, 30% monomeric plas.) |
| Zinc metaborate | 6 | |
| Stabilizer | 2 | |
| Color | 20 | (60% color in monomeric plas.) |

All samples were supposedly the same weight on the fabric. Fabric weighed 5-6 ounces per yard.

During our discussion, it was agreed one direction to go was to a lower weight nylon fabric. Stevenson also talked about a flame proofed polyester fabric. He will do additional work since some advantage was shown by the sample which was back-coated.

DSW 587413

IN-10 REV 11-65

Attention: Dave Mellon

You might review the above formulation with Stevenson since it doesn't agree with the one given in your call report of 3/2/70. We did have a bad conncetion and I may not have understood him well.

N. W. Touchette

jp



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