Monsanto

FROM (NAME & LOCATION) A. W. Morgan - St. Louis Organic Research

DATE : September 6, 1967

SUBJECT : MINIMUM FILM FORMING TEMPERATURES OF VINYL ACETATE BLENDS

REFERENCE :

TO : E. C. Wilde, EWILD

cc: M. W. Farrar, Res. 1
J. R. Darby, Res. 2
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Adhesives

Minimum film forming temperatures were obtained on five vinyl acetate emulsions being evaluated as replacement products for Eastman K-135. A temperature gradient plate (63°F → 33°F) was used and three-mil wet coatings were evaluated. The temperature of the area where a discontinuous (powdery) film formed was measured and reported as the minimum film forming temperature.

Sample	Plasticizer	Min. Film Temp.
1	Eastman K-135	36°F
2	S-160	34°F
3	DBP	37°F
4	S-1704 (85/15 S-160/IGM)	36°F
5	S-1705 (75/25 S-160/IGM)	36°F
6	S-1706 (80/20 S-160/Aroclor 1242)	35°F

The slight differences obtained are within experimental error but the samples evaluated are at least comparable to K-135. If you have any questions concerning this work, please call me.

A. W. Morgan

Time: 12 hours

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