

Monsanto

FROM (NAME & LOCATION) J. H. Orem -Galt Labs - 1730

DATE May 9, 1978

SUBJECT FORD/BFG
LAMINATING ADHESIVES

REFERENCE L. J. Filer:JHO 4-20-78

TO D. L. Gass - Detroit
J. T. Renshaw

cc: S. F. Joyce
J. T. Renshaw
E. C. Wilde - 1010

Several telephone conversations have been held between J. T. Renshaw and D. W. Ward and by Lloyd Filer and me. Both companies are interested in developing a laminating adhesive that can be used by Ford to adhere PVC film to a polyester knit.

We will work with a plastisol based on Geon 130X17:

Geon 130X17	50
PVC "e" grade	50
Plasticizer (70:30 S-711/S-261)	85

Laboratory work needs to be done on adhesion to an all polyester knit. Ford is sending fresh film and fabric. BFG is sending their resin nominations.

When the lab work is completed, the plastisol laminating adhesives will be mixed at J. H. Day Company in Cincinnati. The mixed materials need to be shipped promptly to Ford and tested immediately; the viscosity stability will not be very good.

Lloyd Filer will make the arrangements with J. H. Day Company and he will have a BFG truck to haul the plasticizer to Detroit.

Don, arrangements with Ford for the trial are your responsibility. Jim or I will advise you when the lab work is completed, when we can get time or Day's mixing equipment and when we would like to run at Ford.

If anyone has questions regarding the program, please give me a call.

JHO/gls

P.S. Dispersion grade PVC selling prices:

Geon 130X17, per lb.	53¢/lb.
Geon 128	40¢/lb.
Geon 135	41¢/lb.

L. J. Filer paid Ford uses Diamond 74 and it is priced at something above 41¢/lb.

DSW 587114

STLCOPCB4092449

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Monsanto

FROM (NAME & LOCATION) J. H. Orem - Galt Labs - 1730

DATE May 8, 1978

SUBJECT PLASTICIZER 160
ADHESIVES PRESENTATION

REFERENCE

TO

D. H. Bechtold - 1180
A. H. Bell - Cincinnati
E. F. Capron - 1650
M. D. Card - 1550
M. M. D'Angelo - Greer
B. R. Dolimount - 1650
D. L. Gass - Detroit
A. E. Gray - 1940
S. F. Hastay - 1940
J. J. Kagan - 1130
D. R. Kenner - Marietta
W. G. Morlock - Dallas
D. E. Randall - 1010
C. M. Rector - 1180
J. H. Schuch - 1180
T. H. Stark - AA2F
A. A. Sundberg - Bethel
K. A. Wells - 1550

Jean Dussault - 5090
Rick Lindsay - 5080
Ron Pascucci - 5080

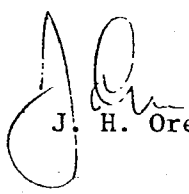
cc: J. H. Brydon - 5080
A. Fitzgerald - 5080
R. Goulet - 5090
T. G. Iversen - B3NC
R. V. Johnson - 1130
C. N. Keeney
A. L. Klemm - 1550
P. W. May
A. Parent - 5090
N. W. Touchette
W. T. Vreeland - B3NC
E. C. Wilde - 1010
J. S. Williams - 1940

The open time data that was generated in the multi-adhesive resin study is attached. Plasticizer 9 is Benzoflex 9-88, and Plasticizer 5 is Benzoflex 50.

Monsanto's Plasticizer Application Research test method is stated for your reference:

A 3 mil film of adhesive is applied to kraft paper. At 15 second intervals, 1" x 6" strips are placed on the adhesive film. "Open Time" is the point where the strips no longer bond to the first sheet of paper because the adhesive has set.

JHO/gls
attach.


J. H. Orem

DSW 587115

STLCOPCB4092450

OPEN TIME

(in seconds)

Resin 90
Plasticizer 10

	<u>Gelva S-55XH</u>	<u>Gelva TS-100</u>	<u>Duracet 30</u>	<u>Resyn 1029</u>	<u>Airflex A-400</u>	<u>Vinac XX230</u>
Santicizer® 160	90	660	60	45	75	45
Dibutyl Phthalate	90	900	75	60	60	45
Plasticizer 9	75	600	60	60	60	45
Plasticizer 5	90	900	75	60	75	45

Resin 85
Plasticizer 15

	<u>Gelva S-55XH</u>	<u>Gelva TS-100</u>	<u>Duracet 30</u>	<u>Resyn 1029</u>	<u>Airflex A-400</u>	<u>Vinac XX230</u>
Santicizer 160	105	-	60	60	75	60
Dibutyl Phthalate	120	-	75	75	75	60
Plasticizer 9	120	-	75	60	90	60
Plasticizer 5	120	-	75	75	75	60

DSW 587116