Monsanto

Fate: Adhesives

FROM
(NAME—LOCATION—PHONE) P. W. May - Galt 1730

DATE : September 3, 1980

SUBJECT : Santicizer® 160/Santolite® MS Blends

REFERENCE : JHO/DHP 7/18/80

TO : J. H. Orem
B3NC

cc: M. W. Farrar T3B
N. W. Touchette 1730
W. T. Vreeland B3NC
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John, Santicizer 160/Santolite MS combinations were tested in Gelva S55XA adhesive formulations at 10% along with several controls. The wet tack and viscosity numbers were not altered, but open time was progressively shortened as the amount of Santolite MS was increased in the blend. The bond strength "to slick surfaces" was not improved by the addition of Santolite MS.

The attached tables show the results of this testing.

P. W. May

Att.
/vw

DSW 587077

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TABLE I

PLASTICIZER	WET TACK SECONDS	OPEN TIME SECONDS
Santicizer® 160	16 - 18	75
Benzoflex 9-88	17 - 19	75 - 90
DBP	18	90
Santicizer 160/Santolite MS,		
90/10	16 - 18	60 - 75
80/20	17 - 18	45 - 60
70/30	16 - 17	45

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TABLE II

BROOKFIELD VISCOSITY

	INITIAL	1 DAY	7 DAYS	14 DAYS	28 DAYS
Santicizer® 160	5600 cps	5750	5450	5800	6100
Benzoflex 9-88	5750	6150	6050	6500	6600
DBP	5850	5950	5600	6050	6000
Santicizer 160/Santolite MS					
90/10	5750	5850	5550	6000	5950
80/20	5650	6000	5700	6150	5900
70/30	5600	5950	5450	6150	6100

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TABLE III

BOND STRENGTH

KRAFT PAPER TO A SLICK SURFACE

	MYLAR	PVC	ALUMINUM FOIL	POLYETHYELNE
Santicizer® 160	None	None	Very Slt.	None
Benzoflex 9-88	Very Slt.	Very Slt.	"	"
DBP	"	"	"	"
SANTICIZER 160/SANTOLITE MS				
90/10	"	"	"	"
80/20	"	"	"	"
70/30	"	"	"	"

This test repeated using adhesive formulations containing 10% cyclohexanone. The results were the same.

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