Monsanto

FROM (NAME & LOCATION) S. F. Joyce, St. Louis Organic Technology Dept.

DATE : June 10, 1971

SUBJECT : PLASTISOL ADHESIVES

REFERENCE : HARTE & CO/OXFORD CHEMICAL

TO : A. W. M. Coaker
ACOAK

cc: M. W. Farrar, Res. 1
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Santicizer 679, Santicizer 160/WCM (6/4) and Santicizer 160/XP-1912 (6/4) were evaluated in 80 phr plastisols with Opalon 400 as laminating adhesives.

A 3-mil film was cast on 20-mil vinyl film with a Bird applicator. Muslin or jersey was then laid on top of the wet film, the construction was placed between aluminum plates, placed under 1/4 lb/sq in weight, and fused for 5 minutes at 149°C. Adhesion was measured on 1-inch widths. Brookfield viscosities were also measured (20 rpm shown).

	Lbs/In. of Width		Viscosity
	Jersey	Muslin	20 RPM
Santicizer 679	10.0	6.0	2620
Santicizer 160/WCM	7.5	8.0	6700
Santicizer 160/XP-1912	6.5	6.5	3120

Although the Santicizer 160/WCM has slightly higher adhesion properties, the S-160/XP-1912 has much lower viscosities. Viscosity is very important in this application due to the thin film being applied.

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