X - Polysulfide File

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

E : December 27, 1978

JECT : XA-1112

ERENCE : "Polysulfide Sealants for Insulated Glass Windows"

) : JHO:WTV et al, June 22, 1978
JHO:NWT - August 25, 1978 (attached)

cc: M. W. Farrar - R2E
J. H. Gannon - B3NB
A. W. Morgan
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XA-1112 is a plasticizer system representing our approach to improving the performance of Santicizer 278. Through improved performance, we will have an opportunity to turn around our decreasing participation in this market. Leaders in this business have been sampled - or by early January will be sampled; these companies are Inmont, Norton, Products Research & Chemicals and Thiokol.

Santicizer 278, compared to chlorinated paraffin, is inferior in resisting moisture vapor transmission and in adhering to aluminum and glass. Normally, these sealants incorporate an adhesion promoter to achieve satisfactory performance. These promoters are in the range of $8.00 per pound and they are used at the 2 to 3 phr level. Sealants using XA-1112 develop better adhesive/cohesive strength, initially and after 6 weeks of wet UV testing, than sealants with Santicizer 278 or Cereclor S-52 with 1 phr of a silane adhesion promoter.

When I introduced XA-1112, I was asked for a price indication. My response was it would probably be 10% higher in price than Santicizer 278. The composition and rough cost-out for XA-1112:

Product	%	$/lb.		
Santicizer 278	88.42	0.70	=	0.6189
VAGH	2.73	0.90	=	0.0246
TPPA	4.425	1.00	=	0.0443
Epoxy Resin	4.425	0.85	=	0.0361
				0.7239

Adding a small amount for blending to this 72.4¢ per pound brings XA-1112 into the mid-70's. That is as high as we can go at this time and have any chance of being competitive, in a sealant formulation, with a chlorinated paraffin.

During the first part of January, we want to meet with you and answer any questions or concerns you have regarding our polysulfide program.

J. H. Orem

JHO/gls

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