Technical Information No.001E

## THE RELATION BETWEEN PARTICLE SIZE OF ANTIMONY TRIOXIDE AND TRANSPARENCY OF PVC FILM

Antimony trioxide has been a common additive to be used as a flame retardant and white pigment for many years. The pigment-effect however may cause some problems in the transparency of resin production. We examined the relation between the particle size of antimony trioxide and the transparency of PVC film. The results of our study are shown below.



The above results tell us the followings :

1. Transparency of a film varies depending on the particle size of antimony trioxide.

2. The proper particle size of antimony trioxide should be selected to satisfy the requirements of the final products.

PATOX-M or PATOX-MF with a fine particle size are suitable to white color products, while PATOX-L or PATOX-P with a larger particle size are for clean colored films.

\* The statement and methods presented herein about the products are based upon the best available data and practices currently known to us. However they are neither presentations nor warranties of performance, results or comprehensiveness of such data, and further they do not imply any recommendation to infringe any patent or offer of a license under any license.

\$	Head Office	3-2 Shimomiyabi-cho, Shinjuku-ku, Tokyo 162-0822, Japan TEL 81-3-3235-0021 81-3-3235-0031 (Sales Department) FAX 81-3-5261-7335
	Osaka Branch	Daido Seimei South Building, 1-2-11 Edobori, Nishi-ku, Osaka 550-0002, Japan TEL 81-6-7711-0120 FAX 81-6-7711-0121
	Nakase Refinery	1198 Yoshii, Yabu-shi, Hyogo 667-1111, Japan
		TEL 81-79-667-2121 FAX 81-79-663-5000

http://www.nihonseiko.co.jp

## Results