

Tentative Method for

ESTIMATING BLOCKING OF PLASTIC SHEETS¹



A.S.T.M. Designation: D 884 - 46 T

ISSUED, 1946.²

This Tentative Method has been approved by the sponsoring committee and accepted by the Society in accordance with established procedures, for use pending adoption as standard. Suggestions for revisions should be addressed to the Society at 1916 Race St., Philadelphia 3, Pa.

Scope

1. This method is intended to give information regarding the degree of blocking of plastic sheets under standard conditions of temperature and pressure. Depending on the end use of the sheet materials, different degrees of blocking may be permissible. No single set of conditions of test can give results indicating the degree of blocking to be expected under all conditions of use (temperature, humidity, pressure, time). Several conditions of test are given to duplicate various conditions of use or to give short-time indications of behavior in use. This method is applicable to comparatively thin, flexible plastic sheets which should show no blocking, or only a slight degree of blocking, during storage and use.

Blocking

2. Blocking is the adhesion between touching layers of a material, such as

occurs under moderate pressures during storage or use.

Apparatus

3. The apparatus shall consist of the following:

(a) *Glass Plate*.—Pieces of plate glass 3 by 4 in. by approximately $\frac{1}{16}$ in. in thickness.

(b) *Paper*.—3 by 5-in. pieces of newsprint approximately 0.003 in. in thickness.

(c) *Oven*.—Constant temperature oven which can be kept at any temperature up to 85 C. within limits of plus or minus 1 C.

(d) *Weights*.—Weights of 4 lb. and 12 lb., having a base area between 2 by 3 in. and 3 by 4 in.

Test Specimens

4. Twelve test specimens 3 by 5 in. shall be cut from each sample for each test.

Conditioning Test Specimens

5. (a) Specimens and paper for test at 50 C. (122 F.) or higher, as provided

¹ Under the standardization procedure of the Society, this method is under the jurisdiction of the A.S.T.M. Committee D-20 on Plastics.

² Accepted by the Society at annual meeting, June, 1946.