

Tentative Specifications for PHENOLIC MOLDING COMPOUNDS¹



A.S.T.M. Designation: D 700 - 45 T

ISSUED, 1943; REVISED, 1945.²

These Tentative Specifications have 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. These specifications cover hot-molding thermosetting compounds consisting of essentially a phenol-formaldehyde resin either alone or intimately combined in the uncured or partially cured condition with fillers, pigments and dyes, as required, to obtain the properties desired.

NOTE.—The properties included in these specifications are those required to identify the types of molding materials covered. There may be other requirements necessary to identify particular characteristics. These will be added to the specifications as their inclusion becomes generally desirable and the necessary test data and methods become available.

Types

2. These specifications cover ten types of phenolic molding compounds classified in accordance with their filler, and

electrical, mechanical, and heat-resisting characteristics, as follows:

Type 1.—An unfilled transparent or translucent material suitable for both electrical and mechanical applications (Note 1).

Type 2.—General purpose wood-flour-filled material suitable for both electrical and mechanical applications (Note 1).

Type 3.—General purpose material with a cellulose filler which may be wood flour or cotton flock. It is somewhat higher in impact strength than type 2 and suitable for both mechanical and electrical applications (Note 1).

Type 4.—Moderate impact strength material with cotton rag or other suitable forms of cellulose filler to give the required strength for this type (Notes 1 and 2).

Type 5.—Medium impact strength material with cotton rag or other suitable forms of cellulose filler to obtain the required strength for this type (Notes 1 and 2).

Type 6.—High impact strength material with cotton rag or other suitable

¹ Under the standardization procedure of the Society, these specifications are under the jurisdiction of the A.S.T.M. Committee D-20 on Plastics.

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² Revision accepted by Administrative Committee on Standards, December, 12, 1945.