

Tentative Specifications for

CAST ALLYL PLASTIC SHEETS, RODS, TUBES, AND SHAPES¹



A.S.T.M. Designation: D 819 - 45 T

ISSUED, 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 allyl plastic sheets, rods, tubes, and other shapes produced by casting or machining cast blanks. These specifications do not apply to heat-formed parts and shapes or sections that are made by assembling two or more pieces.

NOTE.—The properties included in these specifications are those required to identify the types and grades of 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 and Grades

2. These specifications cover one type of cast allyl plastics: namely, a general purpose material.

General Requirements

3. The size, shape, dimensional tolerances, surface finish, and color shall be as specified by the purchaser in the contract or order (Note).

NOTE.—Sheet material is available in the following standard sizes:

Width, in.....	45
Length, in.....	57
Nominal thickness, in.....	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{1}{2}$

Sheet material is subject to permissible variations of plus or minus $\frac{1}{16}$ in. in width and length, and to the following permissible variations in thickness from the specified dimensions:

Nominal Thickness, in.	Permissible Variations, ^a in.	
	Under	Over
$\frac{1}{16}$	0.012	0.020
$\frac{3}{32}$	0.011	0.018
$\frac{1}{8}$	0.015	0.023
$\frac{3}{16}$	0.022	0.022
$\frac{1}{4}$	0.030	0.038
$\frac{5}{16}$	0.034	0.046
$\frac{3}{8}$	0.040	0.045
$\frac{1}{2}$	0.055	0.060

^a These permissible variations apply at any point on the surface of the sheet.

Rods and tubes are subject to the following permissible variations from the specified dimensions: Plus or minus $\frac{1}{16}$ in. in length, plus or minus 10 per cent in outside diameter, and plus or minus 5 per cent in inside diameter.

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.

By publication of these specifications, the American Society for Testing Materials does not undertake to insure anyone utilizing the specifications against liability for infringement of Letters Patent nor assume any such liability, and such publication should not be construed as a recommendation of any patented or proprietary application that may be involved.

² Accepted by Committee E - 10 on Standards, May 10, 1945.