



Standard Guide for Writing Material Standards in the Classification D 4000 Format¹

This standard is issued under the fixed designation D 5740; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

INTRODUCTION

This guide has been prepared to aid in the writing of material standards using the Classification D 4000 format. The following template is included which might be used directly for a draft document simply by filling in the blanks. See appendixes for additional explanatory information.

1. Scope *

1.1 This classification system covers ____ materials suitable for _____. The inclusion or exclusion of recycled plastics in this classification system must be addressed here.

1.2 The properties included in this standard are those required to identify the compositions covered. There may be other requirements necessary to identify particular characteristics important to specialized applications. These may be specified by using the suffixes as given in Section 5.

1.3 This classification system and subsequent line callout (specification) are intended to provide a means of calling out plastic materials used in the fabrication of end items or parts. It is not intended for the selection of materials. Material selection should be made by those having expertise in the plastic field after careful consideration of the design and the performance required of the part, the environment to which it will be exposed, the fabrication process to be employed, the costs involved, and the inherent properties of the material other than those covered by this standard.

NOTE 1—Insert Note 1 here to show the appropriate ISO equivalency statement.

1.4 The following precautionary caveat pertains only to the test method portion, Section 11, of this classification system: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

D 618 Practice for Conditioning Plastics and Electrical

Insulating Materials for Testing²

D 883 Terminology Relating to Plastics²

D 1600 Terminology for Abbreviated Terms Relating to Plastics²

D 1999 Guide for the Selection of Specimens and Test Parameters for International Commerce²

D 3892 Practice for Packaging/Packing of Plastics³

D 4000 Classification System for Specifying Plastic Materials³

D 4066 Specification for Nylon Injection and Extrusion Materials (PA)³

D 5033 Guide for the Development of Standards Relating to the Proper Use of Recycled Plastics⁴

NOTE 2—Omit if use of recycled plastic is not allowed.

D 5630 Test Method for Ash Content in Thermoplastics⁴

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications⁵

3. Terminology

3.1 Except for the terms defined below, the terminology used in this classification system is in accordance with Terminologies D 883 and D 1600.

4. Classification

4.1 ____ materials are classified into groups according to their composition. These groups are subdivided into classes and grades as shown in the Basic Property Table (Table ____). An example of a basic property table can be found in Specification D 4066.

NOTE 3—An example of this classification system is given as follows: The designation ____ indicates the following:

__ = __ as found in Terminology D 1600,

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² Annual Book of ASTM Standards, Vol 08.01.

³ Annual Book of ASTM Standards, Vol 08.02.

⁴ Annual Book of ASTM Standards, Vol 08.03.

⁵ Annual Book of ASTM Standards, Vol 14.02.