



Designation: D 5021 – 9500

An American National Standard

Standard Specification for Thermoplastic Elastomer–Chlorinated Ethylene Alloy (TECEA)¹

This standard is issued under the fixed designation D 5021; 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 specification is intended to be a means of calling out 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 plastics 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 inherent properties of the materials other than those covered by this specification, and the economics.

1. Scope*

1.1 This specification covers alloys of chlorinated ethylene elastomers suitable for injection molding, extrusion, blow molding, thermoforming, and other plastics processing methods.

1.2 This specification allows for the use of those TECEA materials that can be recycled, regrounded, and reprocessed, provided that the requirements as stated in this specification are met. The proportions of recycled material used, as well as the nature and amount of any contaminant, however, cannot be covered practically in this specification.

1.3 The properties included in this specification are those required to identify the compositions covered. There may be other requirements necessary to identify particular characteristics important to specialized application. These shall be agreed upon between the user and the supplier, by using the suffixes given in Section 5.

1.4 The values stated in SI units are to be regarded as the standard. The practices, as detailed in Practice E 380, IEEE/ASTM SI 10, are incorporated herein.

1.5 The following precautionary caveat pertains only to the test methods portion, Section 12, 10, of this specification: *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.*

NOTE 1—There is no similar or equivalent ISO standard.

2. Referenced Documents

2.1 ASTM Standards:

D 412 Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers—Tension Elastomers—Tension²

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.15 on Thermoplastic Materials. Current edition approved Feb. 15, 1995; Nov. 10, 2000. Published April 1995; February 2001. Originally published as D 5021 – 89. Last previous edition D 5021 – 89. In this revision, a recycle statement was added to the Scope, an ISO equivalency statement was added in Note 1, Tables TECEA and A were revised, and the text was revised in accordance with Classification System D 4000. D 5021 – 95.

*A Summary of Changes section appears at the end of this standard.