



Designation: D 5538 – 9802

Standard Practice for Thermoplastic Elastomers—Terminology and Abbreviations¹

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INTRODUCTION

During the past decade the use of special rubber-like polymers, designated as thermoplastic elastomers, has increased both in volume and in commercial importance. The number of unique polymers classified as thermoplastic elastomers that have been brought to commercial acceptance has also grown. (As explained below, these types of rubber-like polymers cannot be accommodated by the systematic nomenclature approach of the existing Practice D 1418.)

Practice D 1418 was initially published in 1956 with a systematic nomenclature procedure based on the chemical structure of the polymer. An attempt to incorporate the new thermoplastic elastomers into the nomenclature scheme of Practice D 1418 produces two serious problems: (1) the abbreviations and acronyms are not the same as the well established abbreviations and acronyms used for the new thermoplastic elastomers by the various producers of these polymers, and (2) the attempt generates a very cumbersome terminology system. Therefore it is necessary to depart from the systematic approach of Practice D 1418.

To avoid the confusion of attempting to revise Practice D 1418 and have conflicting nomenclature and abbreviation designation procedures in the same practice, this new practice devoted exclusively to thermoplastic elastomers is being published.

1. Scope

1.1 The purpose of this practice is to provide a uniform, consensus nomenclature approach for thermoplastic elastomers. This compilation is intended to accommodate and supplement any existing trade names and trademarks.

1.2 No attempt is made to develop an exclusively systematic process for nomenclature and abbreviations.

1.3 In technical papers and other technical or trade literature the full name of the thermoplastic elastomer should be given at its first appearance in the document along with its abbreviation in parentheses. In all subsequent references to the thermoplastic elastomer, the abbreviation may be given.

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This practice is under the jurisdiction of ASTM Committee D-11 on Rubber and is the direct responsibility of Subcommittee D11.08 on Terminology. Current edition approved Nov. August 10, 1998; 2002. Published December 1998; October 2002. Originally published as D 5538-94. Last previous edition D 5538-94.