

BS ISO 16365-2:2014



BSI Standards Publication

Plastics — Thermoplastic polyurethanes for moulding and extrusion

Part 2: Preparation of test specimens and
determination of properties

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee PRI/82, Thermoplastic materials.

A list of organizations represented on this committee can be obtained on request to its secretary.

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**Plastics — Thermoplastic
polyurethanes for moulding and
extrusion —**

**Part 2:
Preparation of test specimens and
determination of properties**

*Plastiques — Polyuréthannes thermoplastiques pour moulage et
extrusion —*

Partie 2: Préparation des éprouvettes et détermination des propriétés





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The committee responsible for this document is ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

ISO 16365 consists of the following parts, under the general title *Plastics — Thermoplastic polyurethanes for moulding and extrusion*:

- *Part 1: Designation system and basis for specifications*
- *Part 2: Preparation of test specimens and determination of properties*
- *Part 3: Distinction between ether and ester polyurethanes by determination of the ester group content*

Introduction

Thermoplastic elastomer materials are classified into groups by the primary elastomeric property Hardness and with this as result of some relation with modulus, as shown in [Figure 1](#). The classification on basis of hardness considers the special position of TPE's between the rubber materials on the one side and the plastic materials on the other.

Each class is subdivided in standard properties and special properties. The standard properties for a class are not only connected with the adjacent group(s) by many of the specified properties but also by special properties specified in the adjacent class(es). A standard property in a class can be a special property in an adjacent class and vice versa.

Special properties are those properties which are in wide use or of particular significance in the practical characterization of a specific material.

For each type of thermoplastic elastomer, refer to the relevant material standard.

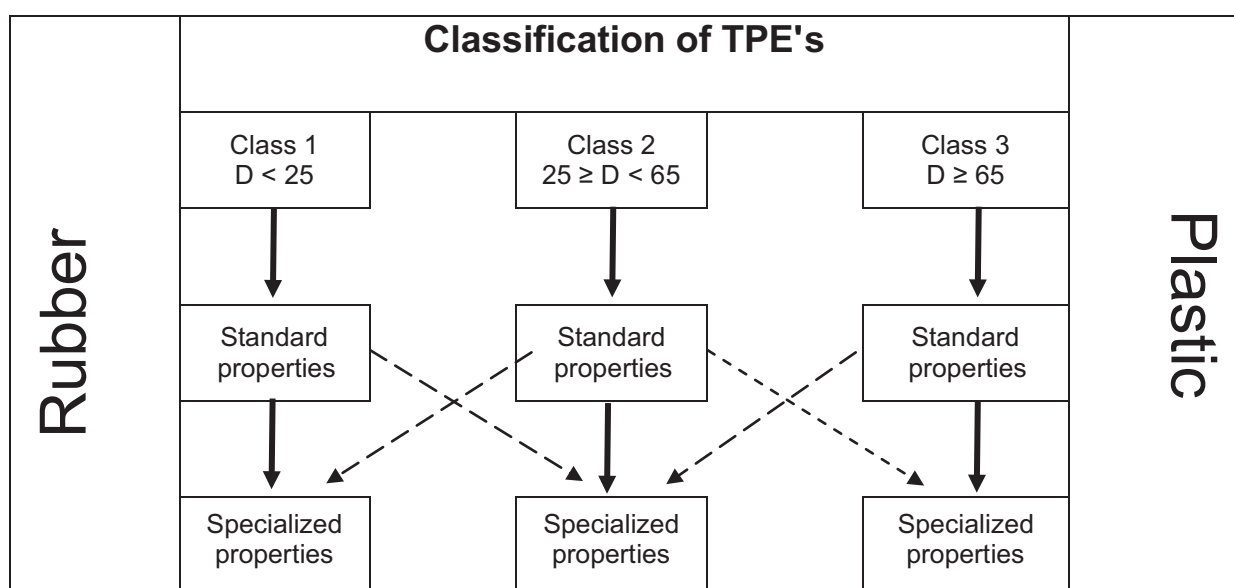


Figure 1 — Structure of thermoplastic elastomer (TPE) material standards