DIN 78004-1:2021-03 (E)

Plastics - Thermoplastic styrene-based elastomers for moulding and extrusion - Part 1: Designation system and basis for specification

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Designation system 6
4.1 General 6
4.2 Data block 1 6
4.3 Data block 2 7
4.4 Data block 3 8
4.5 Data block 4 8
4.5.1 General 8
4.5.2 Hardness 8
4.5.3 Density 9
4.5.4 Colour code 9
4.6 Data block 5 10

5 Designation examples 10

Annex A (informative) Description of thermoplastic styrene-based elastomers (compounds) 12

A.1 General information on TPS 12
A.2 SBC structure 12

Bibliography 14

Figures Figure 1 -- Schematic representation of a TPS 7

Figure A.1 -- Structure of TPS-H (SEBS) 12

Figure A.2 -- Structure of TPS-N (SBS) 13

Tables Table 1 -- Symbols indicating the chemical structure of thermoplastic styrene-based elastomers -- moulding compounds -- in data block 1 7

Table 2 -- Code letters used for fillers and reinforcing materials in data block 2 8

Table 3 -- Code letters used in data block 3 8

Table 4 -- Code numbers used for hardness in data block 4 9

Table 5 -- Code numbers used for density in data block 4 9

Table 6 -- Code numbers used for colour in data block 4 9