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Plastics — Plastic railway sleepers for railway applications (railroad ties) —

Part 1: Material characteristics

*Plastiques — Traverses en plastique pour les applications ferroviaires
(traverses de voie ferrée) —*

Partie 1: Propriétés des matériaux



Reference number
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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Characteristics	2
3.1 Material identification.....	2
3.2 Chemical resistance.....	2
3.3 Physical, mechanical, and electrical characteristics.....	2
3.4 Weathering resistance.....	3
4 Test methods	3
4.1 General.....	3
4.2 Bending strength and flexural modulus.....	4
4.3 Longitudinal compressive strength.....	4
4.4 Lateral compressive strength.....	4
4.5 Shear strength.....	5
4.6 Adhesive shear strength.....	7
4.7 Alternating-current breakdown voltage.....	9
4.8 Direct-current insulation resistance.....	11
4.9 Water absorption.....	14
4.10 Mass density.....	14
4.11 Linear expansion coefficient.....	14
4.12 Flame resistance.....	15
4.13 Weathering resistance.....	15
4.14 Sleeper dimensions.....	17
5 Inspection	18
Annex A (normative) Methodology for assessing material ageing	19
Annex B (informative) Examples of typical sleepers	26
Bibliography	29

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 11, *Products*.

ISO 12856 consists of the following parts, under the general title *Plastics — Plastic railway sleepers for railway applications (railroad ties)*:

— *Part 1: Material characteristics*

The following parts are planned:

— *Part 2: Products*

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Introduction

Railway sleepers are manufactured mainly of pre-stressed concrete, wood, or steel. However, based on the development of plastic materials, some plastic sleepers have been installed in recent years.

In view of the facts that the types of plastics and manufacturing processes can have various effects on the in-service performance, this part of ISO 12856 covers the general characteristics of materials which plastic/composite sleepers are made from, in order to specify their performance.

This part of ISO 12856 will be used in conjunction with ISO 12856-2 to be developed in the foreseeable future.

This part of ISO 12856 applies to sleepers made from plastic materials, including reinforced plastic materials.