MALAYSIAN STANDARD

MS 2763-2:2024

Plastics piping systems for hot and cold water installations - Polybutylene (PB) - Part 2: Pipes (First revision)
(ISO 15876-2:2017 and its AMENDMENT 1:2020, MOD)

ICS: 23.040.20; 91.140.60

Descriptors: plastics, products, pipes, polybutylene, piping system, hot and cold water, materials, characteristics, dimensions, specification

DEPARTMENT OF STANDARDS MALAYSIA

DEVELOPMENT OF MALAYSIAN STANDARDS

The **Department of Standards Malaysia** is the national standards and accreditation body of Malaysia.

The main function of the Department of Standards Malaysia is to foster and promote standards, standardisation and accreditation as a means of advancing the national economy, promoting industrial efficiency and development, benefitting the health and safety of the public, protecting the consumers, facilitating domestic and international trade and furthering international cooperation in relation to standards and standardisation. The use of Malaysian Standards is voluntary except in so far as they are made mandatory by regulatory authorities by means of regulations, local by-laws or any other similar ways.

Malaysian Standards are developed through consensus by committees which comprise balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject at hand. The development of a standard as a Malaysian Standard is governed by the Standards of Malaysia Act 1996 [Act 549]. Section 18A of the act stipulated that, all Malaysian Standards are owned by the Government of Malaysia and no part of a Malaysian Standard can be reproduced in any form without the written permission of the Director General.

For further information on Malaysian Standards, please contact:

Department of Standards Malaysia
Level 4 – 7, Tower 2, Menara Cyber Axis
Jalan Impact, Cyber 6
63000 Cyberjaya
Selangor Darul Ehsan
MALAYSIA

Tel: 60 3 8008 2900
Fax: 60 3 8008 2901
http://www.jsm.gov.my
E-mail: central@jsm.gov.my

Committee representation

The National Standards Committee on Plastics and Plastics Products (NSC 10) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Department of Standards Malaysia (Secretariat)
Federation of Malaysian Manufacturers
Malaysian Institute of Chemistry
Malaysian Plastics Manufacturers Association
Malaysian Rubber Board
Ministry of Domestic Trade and Costs of Living
Ministry of Health
Ministry of Investment, Trade and Industry
National Water Services Commission
Plastics and Rubber Institute of Malaysia
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Kebangsaan Malaysia
Universiti Kuala Lumpur
Universiti Pertahanan Nasional Malaysia
Universiti Sains Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Plastics Pipes and Fittings (NSC 10/TC 2) which supervised the adoption of the ISO Standard as Malaysian Standard consists of representatives from the following organisations:

Aliaxis
Azeeta Pipe System Sdn Bhd
Department of Standards Malaysia (Secretariat)
George Fischer (M) Sdn Bhd
Ke Kelit Manufacturing (M) Sdn Bhd
Lesso Malaysia Industries Sdn Bhd
National Water Services Commission
Paling Industries Sdn Bhd
Perbadanan Bekalan Air Pulau Pinang
PETRONAS Chemicals Group Berhad
Piping Technology Sdn Bhd
Ranhill SAJ Sdn Bhd
SAI Water Consultancy Sdn Bhd
SIRIM QAS International Sdn Bhd (Plastics and Composite Materials Section)
SIRIM QAS International Sdn Bhd (Products Certification Section)
Spirolite (M) Sdn Bhd
The Institution of Engineers, Malaysia

Committee representation *(continued)*

The Working Group on Polybutylene (PB) Pipes and Fittings (NSC 10/TC 2/WG 3) which recommended the adoption of the ISO Standard as Malaysian Standard consists of representatives from the following organisations:

ANQAS Certification Sdn Bhd
Buteline (M) Sdn Bhd
Department of Standards Malaysia (Secretariat)
IKRAM QA Services Sdn Bhd
Jabatan Kerja Raya
National Water Services Commission
Pengurusan Air Selangor Bhd
SIRIM QAS International Sdn Bhd (Product Certification and Inspection Department)
SIRIM QAS International Sdn Bhd (Testing Services Department)
The Institution of Engineers
TUV-SUD Malaysia Sdn Bhd
Universiti Teknologi MARA
WATERMARK Certification Sdn Bhd

National foreword

The adoption of the ISO Standard as a Malaysian Standard was recommended by the Working Group on Polybutylene (PB) Pipes and Fittings (NSC 10/TC 2/WG 3) under the authority of the National Standards Committee on Plastics and Plastics Products (NSC 10).

This first revision of MS 2763-2 cancels and replaces MS ISO 15876-2:2004, *Plastics piping systems for hot and cold water installations – Polybutylene (PB) – Part 2: Pipes* (ISO 15876-2:2003, MOD) including its amendment.

This Malaysian Standard is a modified adoption of ISO 15876-2:2017, *Plastics piping systems for hot and cold water installations – Polybutylene (PB) – Part 2: Pipes* and its AMENDMENT 1:2020 published by International Standardization Organization (ISO) with the following modifications:

a) in the source text, “this international standard” should read as “this Malaysian Standard”;

b) in the source text, “ISO 15876” should read as “MS 2763”;

c) the comma which is used as a decimal sign (if any), to read as a point;

d) the second paragraph of the “Introduction” found in this standard is excluded as it is not applicable in Malaysia;

e) incorporation of National Annex A on “Pipe dimensions for all classes”;

f)

Clause/Subclause	**Modifications**
4.1 General	Add “The compound shall be compounded by the raw material manufacturer. Addition of masterbatch or other additives by the pipe manufacturers shall not be permitted.” in the second paragraph.

Explanation: The statement was added to ensure that the finished product's quality remains consistent.

6.2.1 Table 3	Replace “Table 3” with “Table NA.1”.

Explanation: The table includes PN (bar) to make it easy for the user to associate with the pipe's pressure rating.

6.2.1 Table 4	Replace “Table 4” with “Table NA.2”.

Explanation: The table includes PN (bar) to make it easy for the user to associate with the pipe's pressure rating.

6.2.1 Table 5	Replace “Table 5” with “Table NA.3”.

Explanation: The table includes PN (bar) to make it easy for the user to associate with the pipe's pressure rating.

National foreword *(continued)*

6.2.1 Additional table	Inclusion of “Table NA.4” for “Pipe dimensions for dimension class B3”.

Explanation: “Table NA.4” for “Pipe dimensions for dimension class B3” has been included to accommodate sizes as stated in AS/NZS 2642.2, *Polybutylene (PB) plumbing pipe systems, Part 2: Polybutylene (PB) pipe for hot and cold water applications*.

6.2.1 Table 5	Replace “Table 6” with “Table NA.5”.

Explanation: The table includes PN (bar) to make it easy for the user to associate with the pipe's pressure rating.

10.2 Table 10	Add “Product certification number issued by a recognized certification body”.

Explanation: The statement was added to acknowledge that the product has been certified by a third-party certification body.

g) references to International Standards should be replaced by equivalent Malaysian Standards as follows:

Referenced International Standards	Corresponding Malaysian Standards
ISO 15876-1, *Plastics piping systems for hot and cold water installations – Polybutylene (PB) – Part 1: General*	MS 2763-1, *Plastics piping systems for hot and cold water installations - Polybutylene (PB) - Part 1: General*
ISO 15876-3, *Plastics piping systems for hot and cold water installations – Polybutylene (PB) – Part 3: Fittings*	MS 2763-3, *Plastics piping systems for hot and cold water installations - Polybutylene (PB) - Part 3: Fittings*
ISO 15876-5, *Plastics piping systems for hot and cold water installations – Polybutylene (PB) – Part 5: Fitness for purpose of the system*	MS 2763-5, *Plastics piping systems for hot and cold water installations - Polybutylene (PB) - Part 5: Fitness for purpose of the system*
ISO/TS 15876-7, *Plastics piping systems for hot and cold water installations – Polybutylene (PB) – Part 7: Guidance for the assessment of conformity*	MS 2763-7, *Plastics piping systems for hot and cold water installations - Polybutylene (PB) - Part 7: Guidance for the assessment of conformity*

National foreword *(continued)*

MS 2763 consists of the following parts, under the general title, *Plastics piping systems for hot and cold water installations - Polybutylene (PB)*:

Part 1: General

Part 2: Pipes

Part 3: Fittings

Part 5: Fitness for purpose of the system

Part 7: Guidance for the assessment of conformity

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. MOD on the front cover indicates a modified standard i.e. a standard adapted from an International Standard with permitted technical deviations, which are clearly identified and explained. The changes in structure are permitted provided that the altered structure permits easy comparison of the content of the two standards. Modified standards also include the changes permitted under identical correspondence.