

MALAYSIAN STANDARD

MS 1725:2004

SAFETY OF ELECTRIC TOYS

ICS: 97.200.50

Descriptors: toys, electric toys, safety rules, accident prevention, children

© Copyright 2004

DEPARTMENT OF STANDARDS MALAYSIA

DEVELOPMENT OF MALAYSIAN STANDARDS

The Department of Standards Malaysia (DSM) is the national standardisation and

accreditation body.

The main function of the Department is to foster and promote standards,

standardisation and accreditation as a means of advancing the national economy,

promoting industrial efficiency and development, be nefiting 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.

Malaysian Standards are developed through consensus by committees which

comprise of balanced representation of producers, users, consumers and others with

relevant interests, as may be appropriate to the subject in hand. To the greatest

extent possible, Malaysian Standards are aligned to or are adoption of international

standards. Approval of a standard as a Malaysian Standard is governed by the

Standards of Malaysia Act 1996 (Act 549). Malaysian Standards are reviewed

periodically. 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.

The Department of Standards appoints SIRIM Berhad as the agent to develop

Malaysian Standards. The Department also appoints SIRIM Berhad as the agent for

distribution and sale of Malaysian Standards.

For further information on Malaysian Standards, please contact:

Department of Standards Malaysia

Level 1 & 2, Block C4, Parcel C

Federal Government Administrative Centre 62502 Putrajaya

MALAYSIA

Tel: 60 3 88858000

Fax: 60 3 88885060

http://www.dsm.gov.my

OR SIRIM Berhad

(Company No. 367474 - V) 1, Persiaran Dato' Menteri P.O. Box 7035, Section 2

40911 Shah Alam

Selangor D.E.

Tel: 60 3 5544 6000 Fax: 60 3 5510 8095

http://www.sirim.my

E-mail: central@dsm.gov.my

CONTENTS

		Page
	Committee representation	iii
	Foreword	iv
1	Scope	1
2	Referenced documents	2
3	Definitions	3
4	General requirement	6
5	General conditions for the tests	6
6	Selection of tests	8
7	Marking and instructions	9
8	Power input	12
9	Heating and abnormal operation	13
10	Electric strength at operating temperature	17
11	Moisture resistance	17
12	Electric strength at room temperature	18
13	Mechanical strength	18
14	Construction	19
15	Protection of cords and wires	21
16	Components	21
17	Screws and connections	22
18	Creepage distances and clearances	23
19	Resistance to heat and fire	24
20	Toxicity and similar hazards	25
Appendic	es	
Α	Endurance of thermal controls, overload releases and switches	28
В	Glow-wire test	29
С	Needle-flame test	30
D	Selection of the tests	32
E	Selection and sequence of the tests of Clause 19	33
F	Burning test	34

i

MS 1725:2004

CONTENTS (continued)

		Page
Tables		
1	Torque for testing screws and nuts	23
2	Minimum creepage distances and clearances (in mm)	23
Figures		
1	Example of an electronic circuit with low-power points	26
2	Ball pressure test apparatus	27

Committee representation

The Consumer Products, Personal Safety and Services Industry Standards Committee (ISC C) under whose supervision this Malaysian Standard was developed, comprises representatives from the following organisations:

Department of Chemistry, Malaysia

Department of Occupational Safety and Health

Department of Standards Malaysia

Federation of Malaysian Consumers Associations

Federation of Malaysian Manufacturers

Institut Kualiti Malaysia

Malaysian Institute of Management

Malaysian Trade Un ion Congress

Ministry of Domestic Trade and Consumer Affairs

Ministry of Finance

Ministry of International Trade and Industry

Ministry of Health

Ministry of Human Resource

National Institute of Occupational Safety and Health

The Technical Committee on Child Safety which developed this Malaysian Standard consists of representatives from the following organisations:

A.W. Faber Castell (M) Sdn Bhd

Department of Chemistry Malaysia

Federation of Malaysian Consumers Association

Mattel (M) Sdn Bhd

Ministry of Domestic Trade (Enforcement Division)

Ministry of Education

Ministry of Trade and Consumer Affairs

SIRIM Berhad (Secretariat)

SIRIM QAS International Sdn Bhd (Electrical Testing Section)

Staedtler (M) Berhad

Universiti Kebangsaan Malaysia

Universiti Malaya

Universiti Teknologi MARA

Universiti Sains Malaysia

MS 1725:2004

FOREWORD

This Malaysian Standard was developed by the Technical Committee on Child Safety under the authority of the Consumer Products, Personal Safety and Services Industry Standards Committee.

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