

Thailand's New Mandatory Safety Standard for Toys – TIS 685 Part 1-2562 (2019)

In March 2022, the **Thai Ministry of Industry** has included *TIS 685 Part 1-2562 (2019) Toys: Safety requirements Part 1 – Requirements* into the Thai National List of Compulsory Standards.

TIS 685 Part 1-2562 (2019) was issued on 2021-02-10 under Section 15 of the Industrial Product Standards Act to replace the original 1997 version.

The industrial product standard was established based on the input from academics, manufacturers, users and the following documents:

ISO 8124 - 1: 2018	Safety of toys – Part 1: Safety aspects related to mechanical and physical properties
ISO 8124 - 2: 2014	Safety of toys – Part 2: Flammability
ISO 8124 - 3: 2010 Amd 1: 2018	Safety of toys – Part 3: Migration of certain elements
ISO 8124 - 6: 2018	Safety of toys – Part 6: Certain phthalate esters in toys and children's products
EN 71-1: 2014 A1: 2018	Safety of toys – Part 1: Mechanical and physical properties
AS 1647.2-1992	Children's Toy (Safety requirements) Part 2: Constructional Requirements

Highlights of the Requirements:

Element's content in test samples extracted from toys and toy materials (Section 4.6.1 of the Standard)

Element	Maximum limit for elements in the solution, extracted from toys and toy-making (milligrams / kilogram)		
	Coatings, writing materials, plastics, paper, cardboard, and textiles	Clay materials	Finger paint
Antimony	60	60	10
Arsenic	25	25	10
Barium	1,000	250	350
Cadmium	75	50	15
Chromium	60	25	25
Lead	90	90	25
Mercury	60	25	10
Selenium	500	500	50

Total content of phthalate derivatives in test samples extracted from plastics, rubbers and coatings in the exposed area or part (Table 3 of the Standard)

Phthalate derivatives	The maximum threshold for the total quantity of phthalate derivatives in the test specimens extracted from plastics, rubber and coatings in exposed areas or parts. The unit is a percentage fraction by mass.	
	General toys	Toys for children under 3 years old and have parts that can be put in the mouth
Bis-(2-ethylhexyl) phthalate (DEHP)	≤ 0.1	≤ 0.1
Di-n-butyl phthalate (DBP)		
Benzyl butyl phthalate (BBP)		
Di-iso-nonyl phthalate (DINP)		
Di-iso-decyl phthalate (DIDP)		
Di-n-octyl phthalate (DNOP)		

Effective Date:

The standard will become mandatory on **2022-09-22**.

References:

<https://www.tisi.go.th/data/standard/fulltext/TIS-685-1-2562m.pdf>

https://www.tisi.go.th/website/standardlist/comp_thai/en

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