



उत्पाद मैनुअल
आई एस 809:1992 के अनुसार
सामान्य प्रयोजनों के लिए रबड़ फरसीबंदी की सामग्री के लिए

दस्तावेज संख्या – पी एम/आई एस 809/1/ फ़रवरी 2023

भारतीय मानक ब्यूरो की स्कीम-I (अनुरूपता मूल्यांकन) विनियम, 2018 के तहत यह उत्पाद मैनुअल प्रमाणीकरण के प्रचालन में रीति और पारिश्रिता की सुसंगतता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसि द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस प्रमाणीकरण लाइसेंस/ प्रमाणपत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज का उपयोग किया जा सकता है।

**PRODUCT MANUAL FOR
RUBBER FLOORING MATERIALS FOR GENERAL PURPOSES
ACCORDING TO IS 809 : 1992**

Document No.- PM/ IS 809/1/Feb 2023

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

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1.	Product	:	IS 809: 1992
	Title	:	Rubber Flooring Materials for General Purposes
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	As per Clause 3 of IS 809: 1992
b)	Grouping guidelines	:	Please refer ANNEX – A
c)	Sample Size	:	Sheet of size - 1.5 m × 2 m or 50 tiles (As applicable)
3.	List of Test Equipment	:	Please refer ANNEX – B
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – C
5.	Possible tests in a day:		
	(i) Appearance and Colour (Clause 4.1 & 4.2) (ii) Dimensions and tolerances (Clause 5) (iii) Squareness (Clause 5.2.2) (iv) Hardness (Clause 6.1)		
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 809:1992 with the following scope:		
	Name of the product	Rubber Flooring Materials for General Purposes	
	Type	Tiles/ Sheets	
	Thickness (mm)		
	Tile Size (mm)		
	Sheet Width (mm)		

ANNEX A

Grouping Guidelines

1. IS 809: 1992 covers Rubber Flooring Materials for General Purposes which are categorized as given below:
 - a) Type: Tiles/ Sheets
 - b) Tile size (mm): 200 x 200, 300 x 300 & 500 x 500
 - c) Sheet Width (mm) : 0.9, 1.2, 1.5, 1.8, 2.0, 2.1
 - d) Thickness (mm) : 3, 4, 5, & 6
2. Considering the above, following grouping guidelines is developed for GoL/CSoL:
 - a) Sample of sheet of minimum and maximum thickness with maximum width shall be tested to cover sheets of all thickness in the thickness range tested for width upto and including the width tested.
 - b) Sample of tiles of minimum and maximum thickness with maximum size shall be tested to cover tiles of all thickness in the thickness range tested for size upto and including the size tested.
3. The Firm shall declare the varieties intended to be covered in the Licence. The Scope of Licence may be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.
4. During the operation of the Licence, BO shall ensure that all the types and sizes covered in the Licence are tested in rotation, to the extent possible.

ANNEX B**List of Test Equipment***Major test equipment required to test as per the Indian Standard*

Sl. No.	Tests used in with Clause Reference	Test Equipment
1.	Requirements of flexible PVC flooring (Clause 5 and 7)	
2.	Dimensions and Tolerances (Cl 5)	- Vernier Calipers - Steel tape - Dial Micrometer - L- Shape metal jig - Feeler gauge/ microscope
3.	Hardness (Cl 6.1)	- Hardness test apparatus as per Clause 5 of IS 3400 (Pt 2)
4.	Water Absorption (Cl 6.2)	- Cutter - Weighing balance - Distill water (with temp $27 \pm 2^{\circ}\text{C}$) - Thermometer
5.	Compression Set (Cl 6.3)	- Arrangement to maintain temp at $27 \pm 1^{\circ}\text{C}$ - Thermometer - Air oven
6.	Resistance to Abrasion (Optional) (Cl 6.4)	- Abrasion Machine as per Clause 4.1 of IS 3400 (Pt 3) - Abrasive cloth - Hollow drill - Standard rubbers

The above list is indicative only and may not be treated as exhaustive.

ANNEX C

Scheme of Inspection and Testing

1. **LABORATORY** - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.
 - 1.1 The manufacturer shall prepare a calibration plan for the test equipments.
2. **TEST RECORDS** - The manufacturer shall maintain test records for the tests carried out to establish conformity.
3. **LABELLING AND MARKING** - As per the requirement of IS 809:1992
4. **CONTROL UNIT** - All sheets/tiles of same size and thickness manufactured from same compound under similar conditions of manufacturing in a day shall constitute a control unit.
5. **LEVELS OF CONTROL** - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.
 - 5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.
6. **REJECTIONS** - Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Recommended Levels of Control		
Cl	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
3	Composition	3	IS 809	S	One	Each consignment	Material shall be received withmanufacturer test certificate.
4	Appearance	4	IS 809	R	All tiles/ sheets		-
5	Dimensions and Tolerances						
5.1	Thickness	5.1	IS 809	R	Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
5.2 & 5.3	Size	5.2 & 5.3	IS 809	R			
5.2.2	Squareness	5.2.2	IS 809	R	Ten	Each controlunit	-
6	Performance Requirements						
6.1	Hardness	6.1	IS 809 IS 3400 (Pt 2)	R	One	Each controlunit	-
6.2	Water Absorption	6.2	IS 809	R	One	Alternate Control Unit	-
6.3	Compression Set	6.3	IS 809	S	One	Once in a month	-
6.4	Resistance to Abrasion (Optional)	6.4	IS 809	S	One	Once in a month	-

Note-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by B.O. Head.