

केन्द्रीय मुहर विभाग - III

हमारा संदर्भ- केन्द्रीय मुहर विभाग-3/16: IS 2553 (Part 2) : 2019 16 जुलाई 2019

विषय: IS 2553 (Part 2) : 2019 के अनुरूप एस आई टी के अनुपालन हेतु यह उपरोक्त विषय के संदर्भ में है। अनुमोदित एस आई टी संलग्न है।

सभी शाखा कार्यालयों से आग्रह है कि एस आई टी का अनुपालन तत्काल प्रभाव से सुनिश्चित करें।

(राकेश कुमार)
वैज्ञानिक 'सी' (के मु वि-III)

प्रमुख (के मु वि-III)

सभी क्षेत्रीय/शाखा कार्यालय
आई टी एस विभाग — बीआईएस इंटरनेट पर अपलोड करने हेतू

CENTRAL MARKS DEPARTMENT-III

Our Ref: CMD-3/16: IS IS 2553 (Part 2): 2019

16 July 2019

Subject: SIT for IS 2553 (Part 2): 2019

This has reference to the subject mentioned above. The approved SIT is attached.

BOs may kindly ensure implementation of the SIT with immediate effect.

(Rakesh Kumar)
Sc. C (CMD III)

Head (CMD - III)

Circulated to: All ROs/BOs

Copy to: ITS for hosting on Intranet

**SCHEME OF INSPECTION AND TESTING
FOR CERTIFICATION OF SAFETY GLASS -Part 2- FOR ROAD TRANSPORT
ACCORDING TO IS 2553(Part 2):2019 (*First Revision*)**

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 equipment.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. LABELLING AND MARKING – As per Clause 4 of IS 2553 (Part 2): 2019.

4. CONTROL UNIT – All the safety glass of the same nominal thickness and type (as per Table 1 of IS 2553 (Part 2):2019) manufactured by the same method and under similar conditions 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.

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					Levels of Control		
Clause	Requirement	Test Methods		Test equipment requirement Required (R) or Sub-contracting permitted (S)	No. of Sample	Frequency	Remarks
		Clause	Reference				
4.1	Markings	4.1	IS 2553 (Part 2) :2019	R	Each glass	--	-
5.1 Requirements applicable to All Glazing							
5.1.1	Light Transmittance Test	6.11, Table 1	IS 2553 (Part 2): 2019	S	Three	Once in two years for each type	
5.1.2	Test of Resistance to abrasion	6.6, Table 1	IS 2553 (Part 2): 2019	R	Three	Once in six months for each type	-
5.2 Additional Requirements applicable to All Glazing faced with plastic							
5.2.1	Resistance to Temperature Changes	6.10, Table 1	IS 2553 (Part 2): 2019	R	Two	Once in six months for each type	-
5.2.2	Resistance to fire	6.14, Table 1	IS 2553 (Part 2): 2019	R	Five	Once in six months for each type	-

5.2.3	Resistance to chemicals	6.15, Table 1	IS 2553 (Part 2): 2019	R	Four	Once in six months for each type	-
<u>5.3 Additional Requirements applicable to All laminated-Glass and All Glazing faced with Plastics, Glass Plastics</u>							
5.3.1	Resistance to Radiation	6.8, 6.11, Table 1	IS 2553 (Part 2): 2019	S	Three	Once in two years for each type	-
5.3.2	Resistance to High Temperature	6.7 , Table 1	IS 2553 (Part 2): 2019	S	Three	Once in two years for each type	-
5.3.3	Resistance to humidity	6.9 , Table 1	IS 2553 (Part 2): 2019	R	Three	Once in six months for each type	-
<u>5.4 Additional Requirements applicable to Windscreens</u>							
5.4.1	Optical Distortion Test	6.12 , Table 1	IS 2553 (Part 2): 2019	S	Four	Once in two years for each type	-
5.4.2	Secondary image separation test	6.13 , Table 1	IS 2553 (Part 2): 2019	S	Four	Once in two years for each type	-
5.4.3	Head-form test	6.5 , Table 1	IS 2553 (Part 2): 2019	S	Eight	Once in two years for each type	-
5.4.4	2260 g Ball test	6.4 , Table 1	IS 2553 (Part 2): 2019	S	Twelve	Once in two years for each type and nominal thickness	-
5.4.5	227 g Ball test	6.3 , Table 1	IS 2553 (Part 2): 2019	R	Ten	Once in a month for each type and nominal thickness	-

<u>5.5 Additional Requirements applicable to Panes</u>							
<u>5.5.1 Requirements applicable only to uniformly Toughened Glass Panes</u>							
5.5.1.1	Fragmentation test	6.2 , Table 1	IS 2553 (Part 2): 2019	R	Four	Once in six months for each type	-
5.5.1.2	227 g Ball test	6.3 , Table 1	IS 2553 (Part 2): 2019	R	Six	Once in a month for each type and nominal thickness	-
<u>5.5.2 Requirements applicable only to Laminated-Glass and Glass-Plastic Panes</u>							
5.5.2.1	227 g Ball test	6.3 , Table 1	IS 2553 (Part 2): 2019	R	Eight	Once in a month for each type and nominal thickness	-
<u>5.5.3 Requirements applicable only to Double-Glazed Units</u>							
5.5.3.1	Individual components	5.5.3.1, Table 1	IS 2553 (Part 2): 2019	As outlined in the SIT for that type of glazing			
5.5.3.2	Head-form test	6.5 , Table 1	IS 2553 (Part 2): 2019	S	Twelve	Once in two years for each type	-
<u>5.6 Additional requirements specific to Rigid Plastic Glazing</u>							
5.6.1	Head-form test	6.16 , Table 1	IS 2553 (Part 2): 2019	S	Six	Once in two years for each type	-
5.6.2	Mechanical Strength test- 227g Ball test	6.3 , Table 1	IS 2553 (Part 2): 2019	R	Ten	Once in a month for each type and nominal thickness	-

5.6.2.5	227g Ball Test at $-18^{\circ} \pm 2^{\circ}\text{C}$	6.3 , Table 1	IS 2553 (Part 2): 2019	R	Ten	Once in six months for each type and nominal thickness	-
5.6.3	Flexibility and Fold test	6.17 , Table 1	IS 2553 (Part 2): 2019	R	One	Once in a month for each type	-
5.6.4	Weathering	6.18, Table 1	IS 2553 (Part 2): 2019	R	Three	Once in two years for each type	-
5.6.5	Cross-cut	6.19, Table 1	IS 2553 (Part 2): 2019	R	One	Once in a month for each type	-
<u>5.7 Additional requirements specific to Flexible Plastic Glazing</u>							
5.7.1	227g Ball Test at $20^{\circ} \pm 5^{\circ}\text{C}$	6.3 , Table 1	IS 2553 (Part 2): 2019	R	Ten	Once in a month for each type and nominal thickness	-
5.7.2	227g Ball Test at $-18^{\circ} \pm 2^{\circ}\text{C}$	6.3 , Table 1	IS 2553 (Part 2) : 2019	R	Ten	Once in six months for each type and nominal thickness	-
5.7.3	Flexibility and Fold test	6.17 , Table 1	IS 2553 (Part 2) : 2019	R	One	Once in a month for each type	-

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

Note-2: The control unit and levels of control as decided by the Bureau are obligatory to which the licensee shall comply with.