

ISO 19712-3:2022-03 (E)

Plastics - Decorative solid surfacing materials - Part 3: Determination of properties - Solid surface shapes

Contents		Page
Foreword.....		vi
1	Scope.....	1
2	Normative references.....	1
3	Terms and definitions.....	2
4	Cleaning the test specimen surface.....	2
	4.1 General.....	2
	4.2 Materials.....	2
	4.3 Procedure.....	2
5	Surface defects.....	2
	5.1 Procedure.....	2
	5.2 Method of inspection of surface.....	3
	5.3 Performance requirements.....	3
	5.4 Test report.....	3
6	Resistance to impact by large-diameter ball.....	3
	6.1 Principle.....	3
	6.2 Test specimen.....	3
	6.3 Procedure.....	3
	6.4 Performance requirement.....	4
	6.5 Test report.....	4
7	Lightfastness.....	5
	7.1 Method A.....	5
	7.1.1 Principle.....	5
	7.1.2 Apparatus.....	5
	7.1.3 Test specimen.....	5
	7.1.4 Procedure.....	5
	7.1.5 Assessment of specimen and expression of results.....	6
	7.1.6 Test report.....	6
	7.2 Method B.....	6
	7.2.1 Principle.....	6
	7.2.2 Materials.....	7
	7.2.3 Apparatus.....	7
	7.2.4 Standardization of apparatus.....	7
	7.2.5 Test specimens.....	7
	7.2.6 Procedure.....	7
	7.2.7 Expression of results.....	8
	7.2.8 Test report.....	8
	7.3 Method C (resistance to colour change in light from an enclosed carbon-arc lamp).....	9
	7.3.1 Principle.....	9
	7.3.2 Apparatus.....	9
	7.3.3 Test specimen.....	9
	7.3.4 Procedure.....	9
	7.3.5 Evaluation and expression of results.....	9
	7.3.6 Test report.....	9
8	Stain/chemical-resistance test.....	10
	8.1 Method A.....	10
	8.1.1 Principle.....	10
	8.1.2 Staining agents.....	10
	8.1.3 Apparatus and materials.....	10

8.1.4	Test specimens.....	10
8.1.5	Procedures.....	14
8.1.6	Expression of results.....	14
8.1.7	Test report.....	14
8.2	Method B.....	15
8.2.1	Principle.....	15
8.2.2	Materials.....	15
8.2.3	Apparatus.....	16
8.2.4	Test specimen.....	16
8.2.5	Procedure.....	17
8.2.6	Expression of results.....	18
8.2.7	Test report.....	19
9	Resistance to cigarette burns.....	19
9.1	Method A.....	19
9.1.1	Principle.....	19
9.1.2	Materials.....	19
9.1.3	Test specimen.....	19
9.1.4	Procedure.....	19
9.1.5	Expression of results.....	20
9.1.6	Test report.....	20
9.2	Method B (simulated test using electric heater).....	20
9.2.1	Principle.....	20
9.2.2	Apparatus.....	20
9.2.3	Test specimens.....	25
9.2.4	Procedure.....	25
9.2.5	Expression of results.....	27
9.2.6	Test report.....	27
10	Resistance to dry heat.....	27
10.1	Method A.....	27
10.1.1	Principle.....	27
10.1.2	Materials.....	27
10.1.3	Apparatus.....	28
10.1.4	Test specimen.....	28
10.1.5	Procedure.....	28
10.1.6	Expression of results.....	28
10.1.7	Test report.....	28
10.2	Method B.....	29
10.2.1	Principle.....	29
10.2.2	Materials.....	29
10.2.3	Apparatus.....	29
10.2.4	Test specimen.....	29
10.2.5	Procedure.....	30
10.2.6	Expression of results.....	31
10.2.7	Test report.....	32
10.3	Method C.....	32
10.3.1	Test specimen.....	32
10.3.2	Procedure.....	32
10.3.3	Performance requirements.....	32
10.3.4	Test report.....	32
11	Resistance to wet heat.....	33
11.1	Method A.....	33
11.1.1	Principle.....	33
11.1.2	Materials.....	33
11.1.3	Apparatus.....	33
11.1.4	Test specimen.....	33
11.1.5	Procedure.....	33
11.1.6	Expression of results.....	33
11.1.7	Test report.....	34
11.2	Method B.....	34
11.2.1	Principle.....	34
11.2.2	Materials.....	34

11.2.3	Apparatus	34
11.2.4	Test specimen	35
11.2.5	Procedure	35
11.2.6	Expression of results	35
11.2.7	Test report	36
12	Hot/cold-cycle water-resistance test	36
12.1	Method A — Kitchen sinks	36
12.1.1	Principle	36
12.1.2	Apparatus and materials	36
12.1.3	Test specimen	37
12.1.4	Procedure	37
12.1.5	Performance requirement	38
12.1.6	Test report	38
12.2	Method B — Other shaped products	39
12.2.1	Principle	39
12.2.2	Apparatus and materials	39
12.2.3	Test specimen	39
12.2.4	Procedure	39
12.2.5	Performance requirement	39
12.2.6	Test report	39
13	Hardness	40
14	Ability to be renewed	40
	Bibliography	41