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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 29757-2026

Replacing GB/T 29757-2013

Reflective particle decorated coating glass

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1 Scope

GB/T 29757-2026 is the Chinese national standard covering decorative glass whose back coating carries reflective particles - the panel used for splashbacks, wall cladding and furniture, judged on the appearance and on the adhesion and durability of a coating that has to survive cleaning and humidity. It replaces GB/T 29757-2013 and takes effect on 1 December 2026. It was issued on 25 May 2026 and takes effect on 1 December 2026, replacing GB/T 29757-2013. The document is under the responsibility of the China Building Materials Federation. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

5.6 Impact resistance The sample should not be damaged after the test.

5.7 Fragmentation Status After the test, the number of fragments in the 50mmx50mm area of each sample should meet the requirements of Table 7, and a small number of long strips are allowed. Fragments of the shape, not exceeding 75mm in length (fragments spanning the sides of a square should be counted as half a piece).

5.8 Color difference After the test, the results should meet the requirements of Grade 0, Grade 1 and Grade 2 as specified in Table B.1 of Appendix B of GB/T 9761-2008.

5.9 Moisture resistance After the test, the coating surface should be free from bulging, peeling, cracks, and flaking, and the color difference of the appearance should meet the requirements of 5.8.

5.10 Heat resistance After the test, the coating surface should be free from bulging, peeling, cracks, and flaking, and the color difference of the appearance should meet the requirements of 5.8.

5.11 Resistance to boiling water After the test, the coating surface should be free from bulging, peeling, cracks, and flaking, and the color difference of the appearance should meet the requirements of 5.8.

5.12 Resistance to thermal cycling After the test, the coating surface should be free from bulging, peeling, cracks, and flaking, and the color difference of the appearance should meet the requirements of 5.8.

2 Schematic diagram of diagonal measurement method

6.3.4 Print position deviation The difference between the measured value and the value shown in the diagram, measured using calipers with an accuracy of at least

0.05 mm or a measuring instrument with equivalent or higher accuracy, is the printing position. deviation.

5 Requirements

5.1 General Rules The requirements and test methods for colored crystal decorative glass are shown in Table 1.

5.2 Appearance Quality The appearance quality of colored crystal decorative glass shall meet the requirements of Table

2.Other appearance quality requirements for colored crystal decorative glass shall be agreed upon by the supplier and the buyer.

5.3 Dimensional Deviation

5.3.1 Thickness Deviation The thickness deviation of colored crystal decorative glass is ±0.3mm.

5.3.2 Side length deviation The permissible deviation of the side length of colored crystal decorative glass shall conform to the provisions of Table

3.For other shapes or products with a side length greater than 1800mm, the permissible deviation shall also conform to the provisions of Table 3. The deviation is agreed upon by the supply and demand parties.

5.3.3 Difference between diagonals The diagonal of rectangular products should conform to the specifications in Table 4; for products with a side length greater than 1800 mm and irregular shapes, the difference in diagonal length is determined by The supply and demand sides agree on it.

5.3.4 Print position deviation The permissible deviation for printing position is ±

5.3.5 Aperture and Aperture Deviation The aperture should not be less than the nominal thickness of the glass, and the maximum permissible deviation of the aperture should conform to the provisions of Table 5.

5.3.6 Hole position deviation The hole position deviation shall meet the requirements of GB/T 15763.2, and the maximum permissible deviation of the hole center position is ±1.0mm.

5.4 Flatness The flatness should meet the requirements of GB/T 15763.2, as shown in Table 6.

5.5 Consistency The allowable deviation of the fit of curved colored crystal decorative glass is no more than

1.0 mm. See Figure 1 for a schematic diagram of the fit. Figure

5.13 Adhesion

5.13.1 Cross-cut test After the test, each coated surface should meet or be within Grade 1 as specified in Table 1 of GB/T 9286-2021.

5.13.2 Pull-out test After the test, the minimum adhesion value of the coating on the non-surface surface should not be less than 4 MPa.

5.14 Coating Hardness After the test, the pencil hardness of the coating should be no less than 2H.

5.15 Acid resistance After the test, the coating surface should be free from bulging, peeling, cracks, and flaking, and the color difference of the appearance should meet the requirements of 5.8.

5.16 Alkali resistance After the test, the coating surface should be free from bulging, peeling, cracks, and flaking, and the color difference of the appearance should meet the requirements of 5.8.

5.17 Content of Restricted Substances After testing, the colored crystal decorative glass products contained lead, mercury, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers, and di(2-ethylhexyl) phthalate. Total content of DEHP, dibutyl phthalate (DBP), butyl benzyl phthalate (BBP) and diisobutyl phthalate (DIBP) The content (mass fraction) shall not exceed 0.1%, and the cadmium content (mass fraction) shall not exceed 0.01%.

5.18 Resistant to organic solvents

5.18.1 Alcohol resistance of the surface coating After the test, the coating surface should be free from bulging, peeling, cracks, and flaking, and the color difference of the appearance should meet the requirements of 5.8.

5.18.2 Non-surface coatings resistant to methyl ethyl ketone (MEK) After the test, the coating surface should be free from bulging, peeling, cracks, and flaking, and the color difference of the appearance should meet the requirements of 5.8.

5.19 Coating Surface Properties

5.19.1 Water contact angle Water contact angle >=80°.

5.19.2 Surface Energy There should be no shrinkage or beading within 5 seconds after the test.

5.20 UV resistant After the test, the color difference between the shielded and unshielded parts of the sample should meet the requirements of 5.8.

5.21 Stain resistance After the test, the appearance of the sample should show no color change, no bulging, no peeling, and the surface should be clean without any marks or stains.