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Transparent glass-ceramics for mobile display cover

移动显示盖板用透明微晶玻璃

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is proposed by China Building Materials Federation.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is under the jurisdiction of the National Technical Committee for Standardization of Industrial Glass and Special Glass (SAC/TC447).

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Transparent glass-ceramic for mobile display cover

1 Scope

This document specifies the materials, requirements, inspection rules, packaging, marking, transportation and storage of transparent microcrystalline glass for mobile display cover.

The corresponding test methods are described.

This document applies to the production, inspection, delivery and acceptance of chemically strengthened transparent glass-ceramics for mobile display cover panels.

2 Normative references

GB/T 2410

GB/T 2680

GB/T 9258.2

GB/T 11942-2022

GB/T 31958-2023

GB/T 32642

GB/T 36259

GB/T 37900

GB/T 39815-2021

3 Terms and Definitions

The terms and definitions defined in GB/T 36259 and the following apply to this document.

3.1 Transparent glass-ceramics

Glass with a specific composition is obtained by controlling crystallization to obtain a transparent material in which a microcrystalline phase and a glass phase coexist.

4 Materials

Before chemical strengthening, the refractive index, photoelastic constant, elastic modulus

and fracture toughness of transparent microcrystalline glass should be tested according to the provisions of Appendix A.

The refractive index and photoelastic constant shall be determined by the supplier and the buyer. The elastic modulus shall be no less than 90GPa and the fracture toughness shall be no less than 0.9MPa-m^{1/2}.

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