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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 35157-2017

Resinous agglomerated stone slabs

树脂型合成石板材

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard by the National Standardization Technical Committee Stone (SAC/TC460) centralized. This standard is drafted by: Yunfu City, Guangdong Province, the Department of Quality Supervision, Inspection and Measurement [National Stone Products Quality Supervision and Inspection Center (Canton east)]. Participated in the drafting of this standard. Dongguan Global Classic New Materials Co., Ltd. Wanfeng Stone Technology Co., Ltd., Yunan County, Lee Machine Stone Co., Ltd., Yang West Bode Seiko Building Materials Co., Ltd., Fujian Peng Xiang Industrial Co., Ltd., Foshan City, Rong Guan Glass Building Materials Co., Ltd., a new Cloud Stone (Yunfu) Co., Ltd., Guangxi Li Sheng Stone Co., Ltd., Guangxi million liters Stone Co., Ltd. Guangdong Zhongqi New Material Technology Co., Ltd. Secretary, Guangdong legendary Kong Stone Co., Ltd., Zhangzhou Xinyang Technology Co., Ltd. The main drafters of this standard. Yang Wu, Li Jianquan, Ding Qun, Jin Junmin, Cai Changxin, Hu Yifei, Du Xiaojun, Xu Zhongbao, Li Yong, You Shijun, Yan Hui, Qi Xiaoping, Wang Shaofang, Jane Wei Chuang, Zhang Wen, Liu Songyun, Wang Wanchuan, Hu Guoqiang, Li Guozhao, Shi Yiwen. Resin-type synthetic stone plate

1 Scope

China's national standard for resin-bonded agglomerated stone slabs. It specifies the terms and definitions, the classification, the requirements, the test methods, the inspection rules and the marking, packaging, transport and storage, and it applies to decorative resin-based agglomerated stone. This is the material sold as engineered or quartz stone: crushed quartz or marble, up to about ninety-three per cent by weight, bound with a few per cent of polyester resin and pressed under vacuum with vibration into a slab. It took a large share of the kitchen worktop market from natural granite because it is consistent - a slab looks like the sample, which no quarried stone can promise - and because it is non-porous, so it does not need sealing and does not stain. What it does not do is take heat, since the binder is a polymer, and its dust carries the respirable crystalline silica that has caused an occupational silicosis outbreak among fabricators internationally. The standard's requirements cover the properties that follow from that composition.

This standard specifies the resin-type synthetic stone plate terms and definitions, classification, requirements, test methods, inspection rules, signs, packaging, transportation And storage. This standard applies to decorative resin-based synthetic stone plate.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 6388 transport packaging shipping symbols Building materials radionuclide limits
Liquid unsaturated polyester resin for

GB/T 8237 fiber reinforced plastics

GB/T 9966.1-2001 Test methods for natural finishes - Part 1. Tests for compressive strength after drying, water saturation, freeze-thaw cycles Test method

GB/T 9966.5-2001 Test methods for natural finishes - Part 5. Shore hardness test method

GB/T 11942 Methods for colorimetric measurement of colored building materials

GB/T 16422.2-2014 plastic laboratory exposure test methods - Part 2. Xenon arc lamp

GB 18584-2001 Interior decoration materials Wood furniture harmful substances

GB/T 35165 Synthetic stone terms and classification Test method for synthetic stone Part 1. Determination of density and water absorption Test method for synthetic stone Part 2. Determination of flexural strength Test method for synthetic stone Part 3. Determination of compressive strength

GB/T 35160.4 Synthetic stone - Test methods - Part 4. Determination of abrasion resistance Test methods for synthetic stone Part 5. Determination of thermal shock properties Test methods for synthetic stone Part 6. Determination of impact resistance Calibrated Calibrated Specification JJG7-2004 rectangular ruler test procedures

3 Terms and definitions

GB/T 35165 and defined by the following terms and definitions apply to this document.

3.1 Stone as the main aggregate, the resin as the main binder, stirred, under vacuum, pressure, vibration, molding, curing and other processes made Of a certain size and shape of the plate (hereinafter referred to as "plate").