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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 15022.5-2011

Resin based reactive compounds used for electrical insulation -- Part 5: Quartz filled epoxy resinous compounds

电气绝缘用树脂基活性复合物 第5部分：石英填料环氧树脂复合物

(English Translation)

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Foreword

GB/T 15022 "for electrical insulation resin based reactive compounds" consists of the following components.

--- Part 1. Definitions and general requirements;

--- Part 2. Test methods;

--- Part 3. unfilled epoxy compound;

--- Part 4. Unsaturated polyester impregnating resin;

--- Part 5. quartz filler epoxy compound;

This section GB/T 15022 Part 5.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This part redrafted law revision adopted IEC 60455-3-2:2003 "electrically insulating resin based reactive compounds - Part 3.

Specifications for individual materials Section 2. silica filler epoxy resin composites. " this part of IEC 60455-3-2:2003 related to technical differences in the terms they are involved in the margin of a single vertical line Identity. Specific technical differences are as follows.

--- IEC 60455-3-2:2003 quartz silica filler content in the epoxy resin composite was 45% to 65%, based on domestic demand to this part epoxy filler to quartz composite quartz filler content 45% to 68%;

--- IEC 60455-3-2:2003 requirements for table density value 2 is 1.7g/cm3 ~ 1.9g/cm3, this part to 1.7g/cm3 ~ 2.0g/cm3.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

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This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee of the insulating material (SAC/TC51) centralized.

This section drafted. Zhejiang Rongtai Technology Enterprise Co., Ltd., Sichuan East wood Technology Group Co., Ltd., Guangzhou Po Delta Gas Materials Co., Ltd. Xian Xi, electrical materials Co., Ltd., Guilin University of Electronic Technology, Guilin Electric Apparatus Research Institute.

1 Scope

This section GB/T 15022 specifies the requirements for EP-F-1 to EP-F-7 type epoxy resin containing quartz filler composite after curing.

Other free quartz filler composite would otherwise.

This section applies to EP-F-1 to EP-F-7 type epoxy resin containing quartz filler compound.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 15022.2-2007 electrical insulation composite Part 2 reaction resin matrix. Test methods (IEC 60455-2:1998, MOD) ISO 11359-2:1999 Plastics thermodynamic analysis (TMA) - Part 2. linear thermal expansion coefficient and glass transition temperature Determination (Plastics-Thermomechanicalanalysis (TMA) -Part 2. Determinationofcoefficientoflinear thermalexpansionandglasstransitiontemperature)

3 Requirements

After the curing of epoxy resin quartz filler composite requirements shown in Table 2. Unless otherwise specified, the requirements under (23 ± 2) °C measured.

Note 1: If you belong to other material containing silica filler outside, can also be listed in the Schedule.

Subject to this section of the quartz filler epoxy composite quartz filler content. 45% to 68%.

NOTE 2: The material used in the next lower or higher temperatures may be required supplementary pilot project to determine its applicability.

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4 Special Requirements

When the purchase contract includes Tables 1 and 2 in any particular performance, test methods specified in Table 1 and Table 2 should be used.

Table claim 1 containing quartz epoxy filler compound before curing

Performance GB/T 15022.2-2007 in the chapter, article number

4.3 Viscosity

Epoxy equivalent 4.9 Storage period 4.4 Pot 4.13 Exothermic temperature rise of 4.15 Total shrinkage 4.18

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