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

GB/T 40006.5-2021

**Plastics - Recycled plastics - Part 5:
Acrylonitrile-butadiene-styrene (ABS) materials**

塑料 再生塑料 第5部分：丙烯腈-丁二烯-苯乙烯（ABS）材料

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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 of Standardization Documents" Drafting. This document is Part 5 of GB/T 40006 "Plastic Recycled Plastics". GB/T 40006 has released the following parts.

1. General rules;

2. Polyethylene (PE) material;

3. Polypropylene (PP) material;

5. Acrylonitrile-butadiene-styrene (ABS) materials;

6. Polystyrene (PS) and impact-resistant polystyrene (PS-I) materials;

7. Polycarbonate (PC) material;

8. Polyamide (PA) materials;

9. Polyethylene terephthalate (PET) materials. Please note that some of the contents of this document may involve patents. The issuing agency of this document is not responsible for identifying patents. This document was proposed by the China Petroleum and Chemical Industry Federation. This document is under the jurisdiction of the National Plastics Standardization Technical Committee (SAC/TC15). Drafting organizations of this document. Shanghai Ruiju Environmental Protection Technology Co., Ltd., Anhui Gongying Plastic Industry Technology Co., Ltd., Ningbo Jianfeng New Materials Co., Ltd. Company, Zhonglan Chenguang Chengdu Testing Technology Co., Ltd., China Petroleum and Chemical Industry Federation, Chinese Academy of Environmental Sciences, Shanghai Auxerre Material Technology Co., Ltd., Chongqing Plite New Material Co., Ltd., Dongguan Zhongyi New Material Technology Co., Ltd., People's Republic of China Dagang Customs, Shandong Wanda Chemical Co., Ltd., Shandong Dawn Polymer Materials Co., Ltd., Shandong Inco Environmental Renewable Resources Co., Ltd. Co., Ltd., Ningbo Customs Technology Center, Guangzhou Institute of Quality Supervision and Inspection, Chongqing Gengye New Material Technology Co., Ltd., Qingdao Sino-Singapore Huamei Plastic Co., Ltd.,

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The plastics industry is an important pillar industry of the national economy. With the rapid development of my country's plastics industry and the large-scale use of plastic products, plastics Recycling and recycling is an important issue facing the industry and one of the ways for the sustainable development of plastics. At the same time, it is also a solution to "white pollution", etc. Environmental issues provide an effective way. At present, there is no product standard in the field of plastic recycling in my country, and there is no standard to follow in the industry. Therefore, GB/T 40006 "Plastic Recycling Plastics" series of national standards. According to the characteristics of plastic products, this series of standards is intended to be composed of 12 parts, of which the general rules of Part 1 stipulate that General requirements for the naming, terminology and odor level of raw plastics, restricted substance content, radioactivity, etc., and the rest of the standards except for the general requirements of the Chinese In addition, the technical requirements for recycled plastics of this kind of material are specified according to the types of plastics. This series of standards is to be composed of the following 12 parts under the general title "Plastic Recycled Plastics".

- 1.General rules;
- 2.Polyethylene (PE) material;
- 3.Polypropylene (PP) material;

1 Scope

Part 5 of China's national standard series for recycled plastics, covering ABS. It specifies the classification and naming, the requirements, the test methods and the inspection rules. ABS is the engineering plastic of appliance housings, electronics enclosures, automotive interior trim and toys, and it recycles well by the standards of the family: it is tough, it can be reprocessed several times without collapsing, and the parts it comes from are large, clean and identifiable. What limits it is what accompanied it in service. Recycled ABS from electrical equipment carries the brominated flame retardants that were compounded into it, which are now restricted; ABS from automotive interiors carries the paint and the plating of the parts it came from. The classification in this part is therefore as much about provenance as about melt flow, because a grade fit for a visible housing and one fit for a hidden structural part are separated by their contamination rather than by their mechanics.

2 Sample preparation Equipment and performance measurement

GB/T 30102 Guidelines for the Recovery and Recycling of Plastic Plastic Waste

GB/T 37426 plastic sample

GB/T 40006.1-2021 Plastic Recycled Plastic Part

GB/T 1843 Determination of impact strength of plastic cantilever beam

GB/T 2035 Plastic Terms and Definitions

GB/T 2547 Plastic sampling method

GB/T 2918 Standard environment for condition adjustment and testing of plastic samples
Determination of

GB/T 3682.1 Plastic Thermoplastic Melt Mass Flow Rate (MFR) and Melt Volume Flow
Rate (MVR) Part