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NATIONAL STANDARD OF THE
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ICS 59.060.20
W 51

GB/T 14189-2015

Replacing GB/T 14189-2008

Fiber Grade Polyester Chip (PET)

纤维级聚酯切片（PET）

Issued on: September 11, 2015

Implemented on: April 1, 2016

Issued by: General Administration of Quality Supervision, Inspection and Quarantine;

Standardization Administration of the People's Republic of China.

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Fiber Grade Polyester Chip (PET)

1 Scope

This Standard stipulates the product classification, requirements, test methods, inspection rules, marking, packaging, transportation and storage requirements of fiber grade polyester chip (PET).

This Standard is applicable to bright, semi-dull and full-dull fiber grade polyester chip (PET) which takes terephthalic acid and ethylene glycol as the raw materials in production. Other fiber grade polyester chips may take this as a reference.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 4146.3 *Textiles - Man-made Fibers - Part 3: Terms of Inspection*;

GB/T 6678 *General Principles for Sampling Chemical Products*;

GB/T 6679 *General Rules for Sampling Solid Chemical Products*;

GB/T 8170 *Rules of Rounding off for Numerical Values & Expression and Judgement of Limiting Values*;

GB/T 14190-2008 *Test Methods of Fiber Grade Polyester Chip*

3 Terms and Definitions

What is defined in GB/T 4146.3, and the following terms and definitions are applicable to this Standard.

3.1 Bright Polyester Chip (PET)

Bright polyester chip refers to polyester chip (PET) that does not go through extinction treatment.

3.2 Semi-dull Polyester Chip (PET)

Semi-dull polyester chip refers to polyester chip (PET) whose titanium dioxide content is more than 0.20%, and less than or equals to 0.50 % (mass fraction).

7 Inspection Rules

7.1 Type of Inspection

Type of inspection may be divided into type inspection and exit-factory inspection.

Under the following circumstances, type inspection shall be conducted:

- a) Stipulated periodic inspection;
- b) When there are changes of product design, process and raw materials that might affect product quality;
- c) When the exit-factory result is largely different from the previous type inspection;
- d) When a national inspection institution requests for type inspection.

7.2 Inspection Items

7.2.1 The various performance items in Table 1 are all items of type inspection.

7.2.2 Seven performance indexes in Table 1 (intrinsic viscosity, terminal carboxyl group content, chroma, diethylene glycol content, powder dust, irregular chip, titanium dioxide content) are exit-factory inspection items; the remaining is periodic inspection items.

7.3 Group Batch Rules

Within a certain range, adopt periodic sampling to constitute an inspection batch number. One production batch may be constituted of one inspection batch, or, it may be constituted of several inspection batches.

7.4 Sampling Stipulations

7.4.1 In exit-factory inspection, samples shall be automatically taken by online sampler, or, manually taken on the production line within a certain time interval.

7.4.2 The sampling of packed products shall comply with the stipulations in GB/T 6679. The quantity of sampling packages shall comply with the stipulations in GB/T 6678.

7.4.3 Sampling amount for tests shall be not lower than 500 g. In arbitration, sampling amount shall be not lower than 1,000 g.

7.5 Determination Rules

7.5.1 The determined value or calculated value of performance items shall be compared in accordance with the rounded-off value comparison method stipulated in GB/T 8170 and the limit values of the indexes stipulated in Table 1. Then, determine

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