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

中华人民共和国国家标准

GB/T 11115-2009

Replacing GB/T 11115~11116-1989 and GB/T 15182-1994

Polyethylene (PE) resin

聚乙烯 (PE) 树脂

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Contents

Foreword.....	3
1 Scope	5
2 Normative references	5
3 Classification and designation.....	6
4 Sanitary requirements	6
5 Requirements	6
6 Test methods.....	23
7 Inspection rules	30
8 Mark.....	31
9 Package, transport and storage.....	31

Foreword

This Standard has replaced GB/T 11115-1989 *Low density polyethylene resin*, GB/T 11116-1989 *High density polyethylene resin* and GB/T 15182-1994 *Linear low density polyethylene resin*.

Compared with GB/T 11115, GB/T 11116 and GB/T 15182, the main differences of this Standard are as follows:

- Combined GB/T 11115, GB/T 11116 and GB/T 15182 into one standard;
- In addition to sanitary standard, all normative references in Chapter 2 were changed as dated references;
- Added Chapter 2 classification and designation;
- In 5.1, deleted the requirements of “the particle size shall be (2~5)mm in any direction” in 3.1 in the original standard and changed “without mechanical impurity” into “without impurity”.
- Added “Sample preparation” in the table required in Chapter 5;
- Replaced “cleanliness(colored particle)” with “granular appearance” in the table required in Chapter 5;
- Added “because the application field of each resin is different, the injection molding sample proprieties can be different from that of compression molding sample” in 6.2.2. The specific prepare method of each resin is shown in Table 1 to Table 7;
- Adjusted the blow molding process of LLDPE film and LDPE film and deleted “reduced diameter of film” in 6.2.3;
- Specified two test methods for “fisheye” in 6.10;
- Respecified the test method for “strip” in 6.11;
- Added provisions on the shelf life of polyethylene resin in Chapter 9.

This Standard is proposed by China Petrochemical Corporation (Sinopec Group).

This Standard is under the jurisdiction of Petrochemical Plastic Resins Product Branch of National Standardization Technical Committee of Plastic (SAC/TC 15/SC 1).

Organization in charge of drafting of this Standard: Chemical Plant 1 of Beijing Yanshan Branch of China Petroleum and Chemical Corporation and Research Institute of Qilu Branch of China Petroleum and Chemical Corporation.

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The historical version replaced by this Part is as follows:

- GB/T 11115—1989;
- GB/T 11116—1989;
- GB/T 15182—1994.

Polyethylene (PE) resin

1 Scope

This Standard specified the classification and designation, requirements, test methods and inspection rules of polyethylene (PE) resin and label, packaging, transportation and storage of products.

This Standard applies to ethylene homopolymer or copolymer taking ethylene and other 1-olefin as monomer and polymer containing additives.

This Standard does not apply to ultrahigh molecular weight polyethylene and colored, filled, modified, enhanced polyethylene resin and masterbatch pellets.

2 Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all subsequent modifications (including all corrections) or revisions made thereafter do not apply to this standard. However, the parties that reach an agreement according to this standard are encouraged to study whether the latest versions of these documents may be used. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 1040. 2-2006 Plastics--Determination of tensile properties--Part 2:Test conditions for moulding and extrusion plastics (ISO 527-2: 19 93, IDT)

GB/T 1043. 1-2008 Plastics--Determination of charpy impact properties--Part 1:Non-instrumented impact test (ISO 179-1: 2000,IDT)

GB/T 1409-2006 Recommended methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies including meter wavelengths (IEC 60250:1969,MOD)

GB/T 1842-2008 Plastics--Test method for environmental stress-cracking of polyethylene

GB/T 1845. 1-1999 Polyethylene (PE) moulding and extrusion materials--Part 1: Designation system and basis for specifications (eqv ISO 1872-1: 1993)

GB/T 1845.2-2006 Plastics--Polyethylene (PE) moulding and extrusion materials--Part 2:Preparation of test specimens and determination of properties (ISO 1872-2:1997, MOD)

GB/T 2410-2008 Determination of the luminous transmittance and haze of transparent

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