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Plastics - Polyether polyols - Part 2: Specification

塑料 聚醚多元醇 第2部分：规格

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Plastics - Polyether polyols - Part 2: Specification

1 Scope

This part of GB/T 12008 specifies the requirements, test methods, inspection rules and marking, packaging, transportation, storage of polyether polyols 113E, 210, 220, 220X, 330E, 348H, 330, 330X, 360H, 310, 403, 6305, 8305.

This Part applies to polyether polyols 113E, 210, 220, 220X, 330E, 348H, 330, 330X, 360H, 310, 403, 6305, 8305, which are prepared by ring-opening polymerization of polyol and propylene oxide, (or) polyol and propylene oxide, and ethylene oxide under the action of a catalyst.

2 Normative references

The terms in the following documents become the terms of this Part by reference to this Part of GB/T 12008. For dated references, all subsequent amendments (not including errata content) or revisions do not apply to this Part. However, parties to agreements that are based on this Part are encouraged to study whether the latest versions of these documents can be used. For undated references, the latest edition applies to this Part.

GB/T 605-2006, Chemical reagent - General method for the measurement of colour (eqv ISO 6353-1:1982)

GB/T 6678-2003, General Principles for Sampling Chemical Products

GB/T 6680-2003, General rules for sampling liquid chemical products

GB/T 6682-1992, Water for laboratory use; Specifications (ISO 3696:1987, MOD)

GB/T 12008.1-2009, Plastics - Polyether polyols - Part 1: Designation system

GB/T 12008.3-2009, Plastics - Polyether polyols - Part 3: Determination of hydroxyl number

GB/T 12008.4-2009, Plastics - Polyether polyols - Part 4: Determination of sodium and potassium

GB/T 12008.5-2010, Plastics - Polyether polyols - Part 5: Determination of acidity as acid number

5.10 Determination of pH value

Measure according to the method that is specified in Appendix B.

6 Inspection rules

6.1 Inspection classification and inspection items

The inspection of polyether polyol products is delivery inspection; all items in 4.1 and 4.2 of this Part are delivery inspection items.

6.2 Batching rules and sampling plan

6.2.1 Batching rules

For polyether polyols, the products are batched in batches by each production tank or the same tank of products that are evenly mixed.

Products are inspected and accepted in batches.

6.2.2 Sampling plan

The number of sampling units is in accordance with GB/T 6678-2003. The sampling method is carried out in accordance with the regulations in GB/T 6680-2003. The sampling container shall be dry and clean; the total sampling volume shall not be less than 250 mL. Divide the obtained samples into two dry and clean sampling bottles; seal them; label them; indicate: product name, specification, batch number, production date, sampling time; one bottle for inspection, and the other, after being sealed and stored, for future reference.

6.3 Determination rules and reinspection rules

6.3.1 Determination rules

Polyether polyols shall be inspected by the quality inspection department of the manufacturer in accordance with the test methods that are specified in this Part; the quality of the product shall be determined based on the inspection results and the requirements in this Part.

When the products are delivered, each batch of products shall be accompanied by a product quality certificate, which shall indicate the product name, specification, grade, batch number, analysis date, inspector, inspection result, implementation standard and name of the manufacturer, and sealed with the delivery inspection stamp.

6.3.2 Reinspection rules

If any indicator of the test result does not meet the requirements of this Part, the item shall be re-sampled for re-inspection. Use the re-inspection result as the basis for determining the quality of the batch.

7 Marking, packaging, transportation and storage

7.1 Marking

The packaging containers of polyether polyol products shall have clear and firm marking. The marking content may include: product name, specification, grade, net content, production date, batch number, standard number, name and site of the manufacturer, etc.

7.2 Packaging

The packaging container for polyether polyol products shall be a clean and dried iron drum with painted inner film. The lid of the packaging container shall be strictly sealed; there shall be an outer cover; the net content of the barreled product is 200 kg per barrel. Other types of clean packaging containers can also be used. Each batch of products shall be accompanied by a quality certificate.

7.3 Transportation

Polyether polyols are non-dangerous goods. During transportation, it shall be protected from rain and contamination, and shall be handled with care, to prevent collision with hard objects and leakage.

7.4 Storage

Polyether polyol products shall be stored in a ventilated, dry and cool place. The product, under the packaging, transportation and storage conditions specified in this Part, has a storage period of 1 year from the date of production.

Appendix B

(Normative)

Determination of pH value

B.1 Reagents and solutions

Unless otherwise stated, only use analytical reagents. The test water shall meet the specifications for grade-3 water in GB/T 6682-1992.

B.1.1 Isopropanol aqueous solution (prepared for current use): Mix isopropanol and water in a volume ratio of 10:6;

B.1.2 Sodium hydroxide solution: 0.01 mol/L;

B.1.3 Hydrochloric acid solution: 0.01 mol/L;

B.1.4 pH buffer;

B.1.5 KCl filling solution and electrode storage solution.

B.2 Apparatus

B.2.1 pH meter: accurate to 0.01;

B.2.2 Magnetic stirrer;

B.2.3 Balance: accurate to 0.1 g.

B.3 Analysis steps

B.3.1 Use "two-point calibration" to calibrate the pH electrode; use a pH buffer whose pH is 6.86 to calibrate the first point; then, select a pH buffer close to the estimated to-be-tested solution to calibrate the second point; use these two pH buffers to calibrate the pH electrode; adjust the temperature compensation knob to the temperature of the buffer, or the instrument automatically compensates for the temperature. The display slope of 90% ~ 100% indicates that the electrode is in good condition and can be used; if the slope is greater than 100%, check the calibrated pH buffer; if the slope is 85% ~ 90%, the electrode needs to be cleaned; if it is less than 85%, the electrode needs to be adjusted or replaced.

B.3.2 Weigh (10.0 ± 0.1) g of the sample into a 100 mL beaker.

B.3.3 Add 60 mL of isopropanol aqueous solution into another 100 mL beaker; put in the stirring rotor; insert the pH electrode; turn on the stirring; add sodium

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