

SN

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

SN/T 3298-2012

**Determination of propylene units in ethylene-propylene
copolymer for import and export. Infrared spectroscopy method
(English Translation)**

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Method summary
4 Reagents and materials
5 Apparatus
6 Sampling

Foreword

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

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Ningbo Exit Inspection and Quarantine.

1 Scope

This standard specifies the use of infrared spectroscopy Importers and ethylene - propylene copolymer of propylene unit content approach.

This standard applies to the propylene unit content (mass fraction) of ethylene in the import and export between 82% to 96% - propylene copolymer of propylene units Quantitative tests.

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 2547 plastic sampling method GB/T 8170 repair value represents about rules and limit values and judgment

3 Method summary

After the sample was hot deposition, infrared transmission spectrum scanning, recording its infrared absorption spectra, were measured at $1165\text{cm}^{-1} \pm 5\text{cm}^{-1}$ and $720\text{cm}^{-1} \pm 10\text{cm}^{-1}$ absorption band at the area. And by the standard sample of known propylene unit content obtained calibration public Formula to calculate the propylene unit content.

4 Reagents and materials

4.1

stainless steel plate. 2, the surface smooth, the thickness of 1mm ~ 2mm, square or round, length or diameter is about 5cm.

4.2

sheets. thickness 0.1mm ~ 0.15mm, square or round, side or outer diameter stainless steel plate and consistent center hole inner diameter 1.0cm.

5 Apparatus

5.1

Fourier transform infrared spectroscopy. wave number range of 400cm^{-1} ~ 4000cm^{-1} , the resolution of 4cm^{-1} .

5.2

electrically heated oven. Maximum temperature not lower than $200\text{ }^{\circ}\text{C}$, the temperature fluctuation range of $\pm 5\text{ }^{\circ}\text{C}$.

5.3

tableting machine. the maximum working pressure of not less than 30MPa.

5.4

Balance. a sense of the amount of 1mg.

6 Sampling

Standard products prescribed sampling methods sample. As there is no product standard sample description, according to GB/T 2547 to obtain representative sample.