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GAIN Report

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China - Peoples Republic of

Post: Beijing

National Food Safety Standard on Polypropylene Resin

Report Categories:

FAIRS Subject Report

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Report Highlights:

On November 17, 2011, China notified the WTO of National Food Safety Standard: Polypropylene Resin as SPS/N/CHN/483. This standard applies to polypropylene resin made of propylene homopolymer and copolymers of propylene and olefin used for food containers and packaging materials. This standard stipulates technical requirements and packaging requirements of polypropylene resin used for food containers and packaging materials. The date for submission of final comments to China is January 16, 2012. The proposed date of entry is to be determined. Comments can be sent to China's SPS Enquiry Point at sps@aqsiq.gov.cn. This report is an INFORMAL translation of this document.

General Information:
BEGIN TRANSLATION

GB National Food Safety Standard
GB 9693—XXXX

National Food Safety Standard

Polypropylene Resin

Date of Issue: XXXX-XX-XX

Date of Effectiveness: XXXX-XX-XX

Issued by the Ministry of Health of the People's Republic of China

Foreword

This Standard substitutes GB 9693-88, the Hygienic Standard for Polypropylene Resin Used as Food Packaging Material.

This standard contains the following major modifications on the basis of GB 9693-88:

---Adding the requirements on the terminology and definition, marks, labels, package, transportation, storage and inspection rules;

---Further breaking down the applicable scope of the standard and improving the organoleptic index;

---Formulating the provisions on the extraction limit of normal hexane and the average molecular weight based on different polymer compositions and the service conditions.

National Food Safety Standard Polypropylene Resin

1. Scope

This standard applies to the Polypropylene Resin that can be used for manufacturing the food containers and packing materials, including the Polypropylene Resin formed by propylene homopolymer and the comonomer between propylene and olefin.

2. Technical requirements

2.1 Organoleptic index

Crystalline and transparent or white granules and no odorant or foreign matter is acceptable.

The physical and chemical indexes:

They shall conform to the provisions in Table 1.

Table 1 The physical and chemical indexes

	Classification	Index
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		Normal hexane extract	Molecular weight	Melt index	Relative density (kg/dm ³)
1	Propylene homopolymer	68°C, 2h, % ≤ 6.4			
2 「1」	The copolymers made through catalysis and polymerization from propylene and one or more kinds of α -olefin containing 2-8 carbon atoms and temperature used is <100°C.	50°C, 2h, % ≤ 5.5			
3 「1」	The copolymers made through catalysis and polymerization from propylene and one or more kinds of α -olefin containing 2-8 carbon atoms and temperature used is \geq 100°C.	50°C, 2h, % ≤ 2.6			
4	The copolymers made through catalysis and polymerization from propylene and one or more kinds of α -olefin containing 2-8 carbon atoms and the propylene content is \geq 72%.		Number average molecular weight \geq 35000		0.85~0.91
5 「2」	The copolymers made through catalysis and polymerization from propylene and ethylene and the propylene content is \geq 50%, which can use 5-methylene-2-norbornene and 5-ethylidene-2-norbornene as the modifiers and the content of the modifiers is less than 5%.		Viscometric average molecular weight \geq 120000		0.85~0.91
6 「2」	The copolymers made through catalysis and polymerization from propylene and ethylene and the propylene content is \geq 50%, which can use 1,4-hexadiene as the modifier and the content of the modifier is less than 4.5%.		Viscometric average molecular weight \geq 95600		0.85~0.91
7 「1」	The copolymers of propylene and ethylene and the amount derived from ethylene is \leq 18%; and temperature used is \leq 100°C.			\leq 24	

8 「1」	Two polymers polymerized and formed from propylene and ethylene in the environment where HOPP exists, which are the inseparable polymer blends; the amount derived from propylene in the polymer blends is not lower than 50% and temperature used is $\geq 100^{\circ}\text{C}$.		Number average molecular weight ≥ 25000		
<p>Note 1: The “use temperature” in different classifications refer to the use temperature of processed product made of the resin;</p> <p>Note 2: the processed product of the resin shall not contact, contain or package oil food.</p>					

2.3 Additives

The usage of the additives shall comply with the provisions in GB 9685.

3. Others

The products or the minimum sales package shall be marked with “For Food Contact”.

The products or the minimum sales package shall be marked with material ID of the products.

END TRANSLATION