

National Food Safety Standard

Paints and Coatings for Food Contact Materials and Products

1 SCOPE

This standard is applicable to the coatings on the food-contact surface of food contact materials and products, which form a layer or film to protect and (or) affect the technical performance.

2 GENERAL REQUIREMENTS

Paints and coatings for food contact materials and products shall comply with all the provisions of “National Food Safety Standard—General Safety Requirements for Food Contact Materials and Products”.

3 TECHNICAL REQUIREMENTS

3.1 MATERIAL REQUIREMENTS

The monomers and starting materials of base resin used in coatings for food contact materials and products shall comply with the relevant requirements of Appendix 1.

3.2 SENSORY REQUIREMENTS

3.2.1 The coatings have smooth surface, even colour and lustre, no pores when solidified into film.

3.2.2 The coatings do not crack, no bubbles, not shed when soaked.

3.2.3 The soak solution for coatings shall not have sensory deterioration such as coloring, turbidity, precipitate and odor.

3.3 PHYSICAL AND CHEMICAL INDEXES

The physical and chemical indexes shall comply with the provisions of Table 2.

Table 2. Physical and chemical indexes

Items	Index	Test method
Overall Migration Level In contact with infant foods /(mg/kg) In contact with other foods /(mg/dm ²)	≤60 ≤10	Standard Test Method for Overall Migration Level of Food Contact Materials and Products
Potassium permanganate consumption /(mg/kg)	≤10	Standard Test Method for Potassium Permanganate Consumption of Food Contact Materials and Products

NO.	CAS Number	Chinese Name	English Name	Generic Name	Specific Migration Level (SML) /Maximum Permitted Quantity of Residue(QM)	Comments
87.	27923-68-8	1,3-苯二甲酸与1,4-苯二甲酸、2,2-二甲基-1,3-丙二醇和1,2-乙二醇的聚合物	1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol and 1,2-ethanediol	Saturated Polyester	30 mg/kg (ethanedio: SML); 5 mg/kg (isophthalic acid: SML); 0.05 mg/kg (2,2-dimethyl-1,3-propanediol: SML); 7.5 mg/kg (1,4-benzenedicarboxylic acid: SML)	No contact with alcoholic food
88.	38497-35-7	癸二酸与 2,2'-氧双乙醇、1,2 乙二醇、1,3-苯二甲酸、2,2-二甲基-1,3-丙二醇和 1,4-苯二甲酸的聚合物	Decanedioic acid, polymer with 1,3-benzenedicarboxylic acid, 1,4-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol, 1,2-ethanediol and 2,2'-oxybis[ethanol]	Saturated Polyester	30 mg/kg (SML, as the sum of ethanediol and diethylene glycol); 5 mg/kg (isophthalic acid: SML); 0.05 mg/kg (2,2-dimethyl-1,3-propanediol: SML); 7.5 mg/kg (1,4-benzenedicarboxylic acid: SML)	No contact with alcoholic food

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Free	√	√(Limited)	x	x	√	x	√	x	x	√
Standard	√	√ (Full version)	√	√	√	x	√	√	√	√
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