§ 177.1555 Polyarylate resins.

Polyarylate resins (CAS Reg. No. 51706–10–6) may be safely used as articles or components of articles intended for repeated use in contact with food, subject to the provisions of this section.

(a) Identity. Polyarylate resins consist of basic resins produced by reacting 4,4’-diphenoxy benzophenone and terephthaloyl dichloride in such a way that the finished resins have a minimum weight average molecular weight of 20,000 grams per mole, as determined by light scattering measurements in sulfuric acid at room temperature.

(b) Optional adjuvant substances. The basic polyaryletherketone resins identified in paragraph (a) of this section may contain optional adjuvant substances required in the production of such basic resins. These adjuvants may include substances used in accordance with §174.5 of this chapter and the following:

(1) Benzyol chloride, poly(tetrafluoro ethylene).

(2) [Reserved]

(c) Extractive limitations. The finished food-contact article yields net total extractives in each extracting solvent not to exceed 0.052 milligram per square inch (corresponding to 0.008 milligram per square centimeter) of food-contact surface, when extracted at reflux temperature for 2 hours with the following solvents: Distilled water, 50 percent (by volume) ethyl alcohol in (250 °F) for 2 hours, shall yield total nonvolatile extractives not to exceed 2.33 micrograms per square centimeter (15 micrograms per square inch) of the exposed resin surface.

(d) Limitations. Polyarylate resin articles may be used in contact with all foods except beverages containing more than 8 volume percent ethanol under conditions of use A through H, described in table 2 of §176.170(c) of this chapter.

[52 FR 35540, Sept. 22, 1987]

§ 177.1556 Polyaryletherketone resins.

The poly(oxy-1,4-phenylene-carbonyl-1,4-phenyleneoxy-1,4-phenylene-carbonyl-1,4-phenylene-carbonyl-1,4-phenylene) resins (CAS Reg. No. 55088–54–5 and CAS Reg. No. 60015–05–6 and commonly referred to as polyaryletherketone resins) identified in paragraph (a) of this section may be safely used as articles or components of articles intended for repeated use in contact with food, subject to the provisions of this section.

(a) Identity. Polyaryletherketone resins consist of basic resins produced by reacting 4,4’-diphenoxy benzophenone and terephthaloyl dichloride in such a way that the finished resins have a minimum weight average molecular weight of 20,000 grams per mole, as determined by light scattering measurements in sulfuric acid at room temperature.

(b) Optional adjuvant substances. The basic polyaryletherketone resins identified in paragraph (a) of this section may contain optional adjuvant substances required in the production of such basic resins. These adjuvants may include substances used in accordance with §174.5 of this chapter and the following:

(1) Benzyol chloride, poly(tetrafluoro ethylene).

(2) [Reserved]

(c) Extractive limitations. The finished food-contact article yields net total extractives in each extracting solvent not to exceed 0.052 milligram per square inch (corresponding to 0.008 milligram per square centimeter) of food-contact surface, when extracted at reflux temperature for 2 hours with the following solvents: Distilled water, 50 percent (by volume) ethyl alcohol in (250 °F) for 2 hours, shall yield total nonvolatile extractives not to exceed 2.33 micrograms per square centimeter (15 micrograms per square inch) of the exposed resin surface.