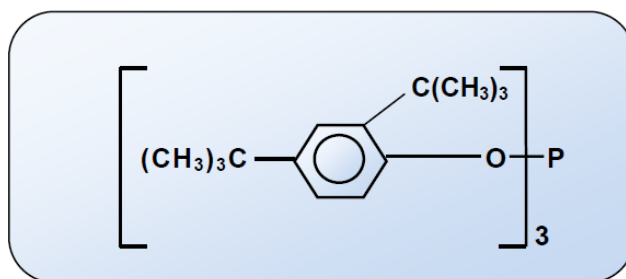


## DOVERPHOS 480

### Tris (2,4-di-t-butylphenyl) Phosphite

**Doverphos 480** is tris (2,4-di-t-butylphenyl) phosphite. It is a solid phosphite with excellent hydrolytic stability. It can be used as a processing stabilizer in polymers to help control color and melt flow. **Doverphos 480** is particularly useful in the stabilization of polyolefins when used in conjunction with a phenolic antioxidant. **Doverphos 480** can also be used to stabilize polyesters, polycarbonates, polyamides, polystyrenes and elastomers. Typical use levels range from 0.10 to 0.80%.



Tris (2,4-di-t-butylphenyl) Phosphite

#### Specification

Property	Range	Test Method
Volatile Matter, %	0.3 max	Par-190
Melting Point, °C	180 min.	ST-20
Assay, %	99 min.	DP-320

#### Typical Properties

Appearance	White free-flowing powder
Molecular Weight	646
Melting Point, °C	182-186
Phosphorus, %	4.8
Specific Gravity, 25°C/15.5°C	.098
Solubility	Soluble in most organics, insoluble in water and methanol

The information contained on this data sheet is believed to be reliable. Since the conditions of application and use of our products are beyond our control, no warranty is expressed or implied regarding accuracy of the information, the results obtained from the use of the product, or that such use will not infringe on any patent. This information is furnished with the express condition that you will conduct your own tests to determine the suitability of the product for your particular use. (032719)

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## **FDA Status of Doverphos 480**

**Doverphos 480** is sanctioned by the FDA for use in food packaging applications in accordance with regulations as printed in Title 21, Section 178.2010 of the U.S. Code of Federal Regulations.

Tris (2,4-di-t-butylphenyl) Phosphite

177.1010 Semi-rigid and rigid acrylic and modified acrylic plastics maximum concentration 0.5% for food contact plastics only with no restrictions on thickness, type of food, or temperatures

177.105 Adhesives

no restrictions on concentration, thickness, type of food, or temperatures

177.1520(c) Olefin polymers, item 1.1, 1.2, or 1.3.

maximum concentration 0.25% with no restrictions on thickness, type of food, or temperatures

177.1520(c) Olefin polymers, item 2.1, 2.2, or 2.3, where the density of such polymers is >0.94 g/cc

maximum concentration 0.20% with no restrictions on thickness, type of food, or temperatures

177.1520(c) Olefin polymers, item 2.1, 2.2, or 2.3, where the density of such polymers is <0.94 g/cc

maximum concentration 0.20% with no restrictions on type of food

<2 mil. no temperature restrictions

>2 mil. room temperature or below fill and storage

177.1520(c) Olefin polymers, item 3.1 or 3.2

maximum concentration 0.20% with no restrictions on thickness, type of food, or temperatures

177.1520(c) Olefin copolymers, item 3.3

maximum concentration 0.50% with no restrictions on thickness or type of food

maximum temperature 250°F

177.1520(c) Olefin polymers, item 4

maximum concentration 0.20% with no restrictions on type of food

<2 mil, no temperature restrictions

>2 mil, room temperature below fill and storage

177.1640 Polystyrene and rubber-modified polystyrene

maximum concentration 0.20% with no restrictions on thickness or type of food

maximum temperature 212°F

177.2600 Elastomers used in rubber articles

Maximum concentration 0.50% with no restrictions on thickness, type of food, or temperatures

177.1500 Nylon resins

maximum concentration 1.00% with no restrictions on thickness or type of food

room temperature or below fill and storage

177.1580 Polycarbonate resins

Maximum concentration 0.3% with no restrictions on thickness, type of food, or temperatures

177.1350 Ethylene-vinyl acetate copolymers

maximum concentration 0.2% with no restrictions on temperature

for fatty foods only, the average thickness of such polymers in the form in which they contact food shall not exceed 4 mil.

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