

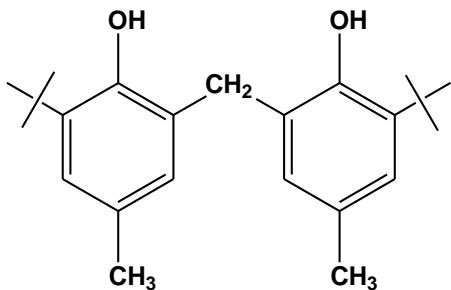
# EVERNOX®-2246

## Phenolic Primary Antioxidant for Manufacturing, Processing and Long-Term Thermal Stabilization

**Chemical Name** 2,2'-Methylenebis(4-methyl-6-tert-butylphenol)

**Formula** C<sub>23</sub>H<sub>32</sub>O<sub>2</sub>

### Structure



**Molecular Weight** 340.5

**CAS Number** 119-47-1

<b>Specification</b>	<u>Criterion</u>	<u>Requirement</u>
Appearance		Mild yellowish powder
Ash content		0.25% max
Volatiles		0.3% max
Assay		95.0% min

### Physical Properties

Melting range (°C)	124-132
Flash point (°C)	>190
Specific gravity (20°C)	1.08 g/cm <sup>3</sup>
Bulk density	308 kg/m <sup>3</sup>
Solubility (20°C)	g/100ml solution
Acetone	175
Ethanol	154
Ethyl acetate	134
n-Heptane	8
Toluene	62
Water	Insoluble

Weight loss (TGA, in N<sub>2</sub> at 10°C/min)

Temp.(°C) at 5 % weight loss	178
Temp.(°C) at 10 % weight loss	180
Temp.(°C) at 25 % weight loss	210

**Applications**

**EVERNOX-2246** is one of the most widely used antioxidants for white, light colored and transparent vulcanates that are based on natural or synthetic rubbers. In light colored vulcanates, it retards the crazing effect caused by exposure to light. It does not influence processing and vulcanizing properties. It exhibits low volatility and migration which makes it suitable for use in POM and ABS.

**EVERNOX-2246** is listed in Section 175.105 of the Food Additives Regulations as a component food packaging adhesives and in Section 177.2600 as a component of rubber articles intended for repeated use in contact with food. Total antioxidant is not to exceed 5% by weight of rubber product. It is also permitted for use in olefin polymers per Section 178.2010 at levels not to exceed 0.1 wt. % of the finished product, in contact with foods of high water content, alcoholic beverages, moist and dry solids containing no free fat or oil on the surface, etc.

**Handling & Safety**

**EVERNOX-2246** should be handled with care and prevent contamination of the environment. Avoid dust formation and ignition sources.

For more detailed information please refer to the material safety data sheet.

**Packing**

The following packages are available upon customer's request :

- (1) 20/25 kg PE bag(s) in a carton box
- (4) Other specific request.

**Transportation**

**EVERNOX-2246** is not dangerous materials according to the transportation regulations.

**Storage**

**EVERNOX-2246** should be stored under suitable conditions (dry & cool).

Maximum recommended storage time from the date of analysis : 12 months.



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