



# DIAMOND ADDITIVE

## Plastic Additives Supplier

### PRODUCT DATA SHEET

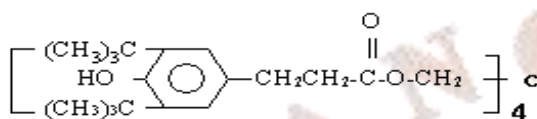
#### AO-1010 (powder )

**Chemical Name:** Pentaerythritol tetrakis [3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate]

**Molecular Formula:**  $C_{73}H_{108}O_{12}$  **Molecular**

**Weight:** M=1178

**Chemical Structure Formula:**



#### Typical Physical Properties:

Item		Standard
Appearance		White powder
Melting range (°C)		110~125
Volatile (%)		≤0.5
Solubility (2g/20ml, Toluene)		Limpidity
Light Transmittance	425nm,%	≥ 95
	500nm,%	≥ 97
Ash content (%)		≤ 0.1
Purity (%)		≥ 94
Effected component (%)		≥ 98

**Features:** AO-1010 is white crystalline powder, soluble in such organic solvents as benzene, toluene, chloroform and so on, slight soluble in alcohol, but insoluble in water. No transport or no frost spray when added to the products because of its volatility. Little toxicity and its half lethal dose (for a white mouse is only  $LD_{50} \geq 15000 \text{ mg/kg}$ ). Many countries have approved it used as packing material for food.

**Application:** AO-1010 is the typical representative of hindered phenol antioxidants, non-poisonous, nondiscolouring as well as nonstaining and is an excellent top-quality approved in international. It is widely used in a variety of polymer materials, such as polypropylene, polyethylene, polyester, polyurethane, polystyrene, PBT, ABS, polyamide,