



DIAMOND ADDITIVE

Plastic Additives Supplier

PRODUCT DATA SHEET

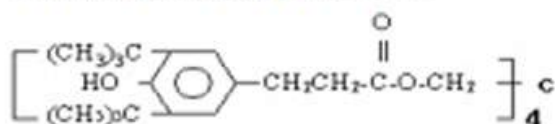
AO-1010 (powder)

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

Molecular Formula: C₇₃H₁₀₈O₁₂

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	
Effectuated 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 LD₅₀≥15000mg/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,