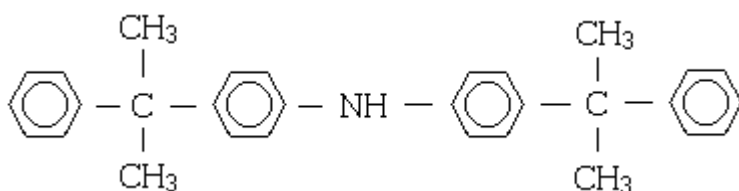


# Technical Data Sheet

## SUNNOX 445

**Chemical name:** 4,4-Bis(alpha,alpha-dimethylbenzyl)diphenylamine

**Structure formula:**



**MW:**405.58

**CAS NO.:** 10081-67-1

**Physical and chemical properties:**

Item	SUNNOX 445
Appearance	White-off crystals powder
Melting point(°C) ≥	98.0~102
Moisture content (Max.%) ≤	0.3
Ash Content (Max.%) ≤	0.2

**Toxicity test:**

1. Ingestion of rat: LD50>5000mg/kg;
2. Skin contact (rabbit): no reaction;
3. Eye contact (rabbit): no reaction;

**Application:**

This product is one of the few kinds of antioxidant, which is non-toxic, tasteless, light colored. The anti- oxygen effect is similar (America) in Uniroyal. Naugard445 and the imperial palace (Japan) Nocrac CD.It is widely used in various kinds of elastomers. It can be used in polyethylene, polypropylene, polyvinyl chloride and other color master batch. It can also be used as antioxidant in polyurethane foam, rubber wire, cable, food package and adhesive, especially in neoprene colorful cable's jacket for its excellent resistance to heat, light, and aging. In

polyether this product can be used as light-resistant and anti-aging antioxidant, also as antioxidant for lubricating oil.

**It is especially effective to be used in neoprene acrylate rubber, polyether polyalcohol for its resistance to aging caused by high temperature and light. When used together with sulfur-contained antioxidant, it has operational effect.**

**Usage:**

Because this product is a kind of pollution-free antioxidant, in common rubber and plastics, the used amount could be 1-3 parts. It can be easily dispersed in glues and will not have appreciable influence on sulfidation property of glue.

**Its endurance is much longer than phenol antioxidant, such as SP, 1010, BHT (264), and is an ideal substitute for phenol antioxidant.**

**Notice:**

Although this product is a kind of pollution-free antioxidant, it will have light change in color when exposed in sunlight and atmosphere. But the property of this product will not change. It should be kept in air-tight package and away from light, moisture, sunlight, rain, and should be kept in cool and dry environment.

**Package:** 25kg paper&plastic barrel with a black plastic bag inside