

# K.NOX 445

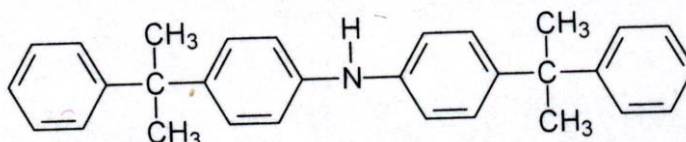
**CHEMICAL NAME** 4,4-bis-( $\alpha,\alpha$ -dimethylbenzyl)diphenylamine

**CAS NUMBER** 10081-67-1

**EINECS NUMBER** 233-215-5

**MOLECULAR FORMULA:** C<sub>30</sub>H<sub>31</sub>N

**STRUCTURE**



**MOLECULAR WEIGHT** 405.58

<b>CHEMICAL-PHYSICAL PROPERTIES</b>	Appearance	White powder or crystal
	Ash	≤ 0.10 %
	Melting point	≥ 98.5
	Heat loss	≤ 0.20 %
	Residue on sieve, 60 screen mesh	≤ 60.0 %
	Residue on sieve, 10 screen mesh	0 %

**APPLICATION** **K.NOX 445** is one of the few kinds of antioxidant, which is non-toxic, tasteless, light colored. Widely apply in each kind of elastomer. It can be used in polyethylene, polypropylene, polyvinyl chloride and other plastic masterbatch. It may use as the urethane foam as well as the electric wire, the electric cable, packaging material for food, the adhesive antioxidant, especially for heat-resisting , lightfastness, ageing resistance in the neoprene colored cable sheath, K.NOX 445 is remarkable. It can use as lightfastness and ageing resistance antioxidant in the polyether and foam, and also as lubricant antioxidant. It's specially effective to protect neoprene, polyacrylate rubber, polyether polyol and so on from ageing resistance because of high fever, light and some other factors. It has good cooperative effect with the sulf-antioxidant.

**ADDITION LEVELS**

Taking into account the type of polymer, the type and amount of synergistic additives **K.NOX 445** should be used at 0.25 to 1.0 phr. **K.NOX 445** is moreover strongly synergized by combination with phenolic AOX like K.NOX 1010 and 1098, and hydroperoxide decomposers like K.NOX 168 and 126.

**PACKAGING**

**K.NOX 445** is supplied in 25 kgs net in carton box with PE bag.

**HANDLING AND STORAGE**

**K.NOX 445** must be stored in a dry and ventilated cool place, in securely closed drums. Avoid exposure to direct sunlight. Protect eyes and face and use gloves when handling the product. For detailed information on toxicity, storage and handling please refer to the relevant Material Safety Data Sheet.

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The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments. Neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom K Chimica supply their own products to ensure that any proprietary rights or patents and existing laws and legislation are observed. The product has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.