

## KINOX<sup>®</sup>-10 / KINOX<sup>®</sup>-10G

KINOX<sup>®</sup>-10 / KINOX<sup>®</sup>-10G is a high performance phenolic antioxidant for stabilisation of polymers

### 1 PRODUCT INFORMATION

<b>Main constituent</b>	:	Benzenepropanoic acid,3,5-bis(1,1-dimethylethyl)-4-hydroxy-2,2-bis[[3-(3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy)methyl]-1,3-propanediyl ester or Pentaerythrityl tetrakis[3-(3,5-di-tert.butyl-4-hydroxyphenyl)propionate] CAS Number 6683-19-8 Mol. Formula C <sub>73</sub> H <sub>108</sub> O <sub>12</sub> Mol. Wt. 1178
<b>Physical form</b>	:	White to slightly yellowish powder / granules
<b>TGA in air at 20 °C/min.</b>	:	
up to 310 °C	:	1.0% wt. loss max.
up to 355 °C	:	10.0% wt. loss max.
up to 415 °C	:	50.0% wt. loss max.
<b>Solubility</b>	:	Insoluble in water and methanol. Soluble in acetone, benzene, chloroform & ethyl acetate.
<b>Health, safety &amp; handling information</b>	:	Relevant information can be found in sheet no. HPLA/MSDS/PE/AO/001

### 2 SPECIFIED PROPERTIES

<b>Melting point (°C)</b> (open capillary tube method)	:	110-125
<b>Volatility (%w/w)</b> (2g/2h/105 °C)	:	0.3 max.
<b>Sulphated ash (%w/w)</b> (5g/800 ± 50 °C)	:	0.1 max.
<b>Solubility</b> (10g/100 ml toluene)	:	Clear solution

### 3 SPECIAL FEATURES

KINOX<sup>®</sup>-10 / KINOX<sup>®</sup>-10G provides excellent antioxidant performance and thermal stability to polyolefins (PE & PP), styrene resins etc. because of its unique molecular structure. It also improves processing stability and long term heat stability.

KINOX<sup>®</sup>-10 / KINOX<sup>®</sup>-10G exhibits good resistance to discoloration at high temperatures usually encountered in thermoplastic polymers processing.

### 4 DOSAGE / APPLICATION

Performance data of KINOX<sup>®</sup>-10 / KINOX<sup>®</sup>-10G in various organic polymers is available on request.

### 5 FOOD REGULATORY STATUS

As per US Food & Drug Administration (US-FDA) regulation, this product may be used safely as antioxidant in polymers within the scope & limitation of 21CFR; 178.2010. For indirect food contact substance. Please refer above regulation before use.

### 6 PACKING

KINOX<sup>®</sup>-10 / KINOX<sup>®</sup>-10G is packed in 25 Kg corrugated boxes with polythene liner inside or as per agreed customer's requirement.

The information given in this document is only a recommendation, believed to be reliable and is given in good faith but without warranty. Our advice does not release users from the obligation of checking its validity. The user should test the product to ascertain the suitability for the intended use. These properties or the whole document is subject to change without any prior notice, at our sole discretion. We are under no obligation to recall earlier issued documents.

#### **HPL Additives Limited**

803, Vishal Bhawan, 95 Nehru Place  
New Delhi - 110 019, INDIA.

Tel. : +91-11-2643 1522, 2642 1570

Fax : +91-11-2647 4350, 2646 0981

e-mail : [hpll@hpl-group.com](mailto:hpll@hpl-group.com)