

## Technical Data Sheet

### NORANTOX 1010

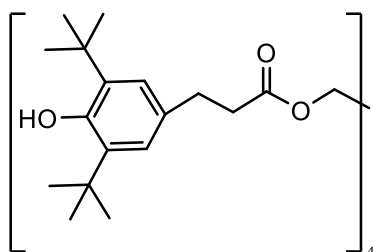
**NORANTOX 1010** is a high molecular weight hindered phenolic antioxidant that provides very low volatility and excellent resistance to extraction from polymer compounds.

Chemical name: Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate)

CAS No.: 6683-19-8

Formula: C<sub>73</sub>H<sub>108</sub>O<sub>12</sub>

Structural formula:



Typical Properties	Characteristics	Value	Unit	
	Molecular weight	1178	g/mol	
	Boiling point	281	°C	

Specification	Characteristics	Value	Unit	Measurement method
	Appearance	white	-	visual
	Clarity	clear	-	visual
	Melting range	110.0-125.0	°C	GB / T 617
	Volatiles	max. 0.50	%	GB / T 11409.4
	Ash	max. 0.10	%	GB / T 11409.7
	Transmittance			HG-T7313
	@425 nm	min. 96.0	%	
	@500 nm	min. 98.0	%	
	Assay	min. 98.0	%	HPLC

**Application**     **NORANTOX 1010** is a white powder, cylindrical grain or microsphere, soluble in organic solvents as benzene, toluene, chloroform, but insoluble in water.

**NORANTOX 1010** is applicable in polyolefins, such as polyethylene (PE), polypropylene (PP) and olefin copolymers such as EVA copolymers. Also, it is used in other polymers such as POM, PA, PUR, polyesters, PVC, styrene homo- and copolymers, ABS, elastomers such as IIR, SBS, SEBS, EPM and EPDM as well as other synthetic rubbers, adhesives and other organic substrates. Recommended dosage: 0.1-0.3%

**Storage**             If stored under adequate conditions and in original packaging, the product has a shelf life of at least 12 months after date of manufacture.

**Safety Precautions**     When processing antioxidants, all relevant regulations regarding occupational safety, health and environmental protection have to be observed. Please refer to the safety data sheet for detailed instructions.

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All stated details as well as the applications-technology advice are founded on practical experience and careful examinations. However, they are to be considered as non-committal advice only. No liability can be assumed for the results obtained during processing. We therefore strongly recommend to carry out individual tests before using our products. Existing patents with regard to the final product created after processing our product, as well as any legal regulations applicable thereto, have to be observed by the purchaser at his own risk. The sale of our products is effected as provided in our General Terms of Sale and Delivery.