

# EVERNOX<sup>®</sup>-10

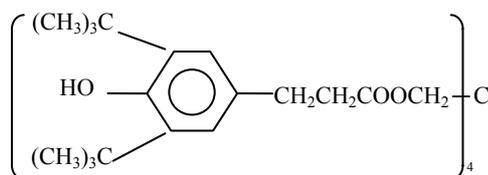
# EVERNOX<sup>®</sup>-10GF

**Phenolic Primary Antioxidant for Manufacturing, Processing and Long-Term Thermal Stabilization**

**Chemical Name** Pentaerythritol Tetrakis (3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

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

**Structure**



**Molecular Weight** 1178

**CAS Number** 6683-19-8

<b>Specification</b>	<u>Criterion</u>	<u>Requirement</u>
	Appearance	White, free-flowing powder for EVERNOX-10 White, free-flowing granules for EVERNOX-10GF
	Ash content	0.1% max
	Volatiles	0.5% max
	Color of solution (10g in 100ml toluene)	40 APHA max
	Color of fusion	200 APHA max
	Transmittance (10g in 100 ml toluene)	at 425 nm 97.0% min at 500 nm 97.0% min
	Assay	98.0% min

## Physical Properties

Melting range (°C)	110-125
Flash point (°C)	297
Specific gravity (20°C)	1.15 g/cm <sup>3</sup>
Bulk density	Powder : 530 - 630 g/l GF : 450-570 g/l
Solubility (20°C)	g/100g solution
Acetone	46
Benzene	55
Chloroform	71
Ethylacetate	47
n-Hexane	0.3
Methanol	0.9
Methylene Chloride	63
Toluene	60
Water	<0.01
Weight loss (TGA, in air at 20°C/min)	
Temp.(°C) at 1 % weight loss	310
Temp.(°C) at 10 % weight loss	355

**Applications**

EVERNOX-10 and / or EVERNOX-10GF is a sterically hindered phenolic antioxidant with a highly effective, non-discoloring stabilizer for organic materials. It protects these materials against thermo-oxidative degradation. EVERNOX-10 can be applied in polyolefins, such as PE, PP and olefin copolymers like EVA. Also its use is recommended in various polymers such as POM, PA, PUR, PES, PBT, PET, PVC, styrenic like IPS, ABS, elastomers like SBS, SEBS, EPM and EPDM as well as synthetic rubbers, adhesives tackifier and other organic substrates.

EVERNOX-10 has good compatibility, high resistance to extraction and low volatility, odorless. It can be used in combination with other additives like costabilizers (e.g. thioesters, phosphites, phosphonites), light stabilizer and other functional stabilizers. The synergistic blends of EVERNOX-10 with EVERFOS-168 are extreme performance in polymers stabilization.

**Handling & Safety**

EVERNOX-10 and EVERNOX-10GF should be handled with care and prevent contamination of the environment. Avoid dust formation and ignition sources.

For more detailed information please refer to the material safety data sheet.

**Packing**

The following packages are available upon customer's request :

- (1) 20 kgs paper bag.
- (2) 25 kgs x2 PE bag in the carton box.
- (3) 50 kgs fiber drum.
- (4) Other specific request.

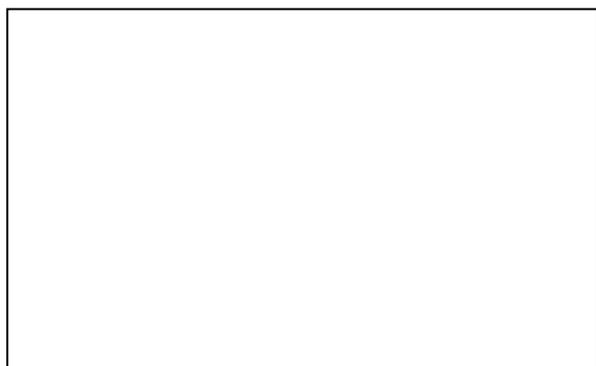
**Transportation**

EVERNOX-10 and EVERNOX-10GF are not dangerous materials according to the transportation regulations.

**Storage**

EVERNOX-10 and EVERNOX-10GF be stored under suitable conditions (dry & cool).

Maximum recommended storage time from the date of analysis : 60 months.



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