

# **EVERNOX®-B1412**

## Synergistic Processing and Long-Term Thermal Stabilization

Chemical Name 66.7% EVERFOS-168: Tris (2,4-di-tert-butylphenyl) phosphite

33.3% EVERNOX-3114: Tris-(3,5-di-tert-butyl-4-hydroxybenzyl)-isocyanurate

**Formula** 66.7% C<sub>42</sub>H<sub>63</sub>O<sub>3</sub>P (EVERFOS-168)

33.3% C<sub>48</sub>H<sub>69</sub>N3O<sub>6</sub> (EVERNOX-3114)

**Structure** EVERFOS-168

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EVERNOX-3114

OH

CH2

OH

CH2

OCH2

Molecular Weight 646.9 784

**CAS Number** 31570-04-4 27676-62-6

**Specification** <u>Criterion</u> <u>Requirement</u>

Appearance White, free-flowing powder for EVERNOX-B1412

Ash content 0.1% max Volatiles 0.5% max

Assay EVERFOS-168 64.6~68.6%

EVERNOX-3114 31.4~35.4%

**Physical Properties** 

Melting range ( $^{\circ}$ C) 185-223 $^{\circ}$ C Flash point ( $^{\circ}$ C) >150 $^{\circ}$ C

#### **Applications**

EVERNOX-B1412 and are used in polyolefins and olefins-copolymers such as LDPE, HDPE, LLDPE, PP and EVA. It can also be used in other polymers such as engineering plastics, styrene homo and copolymers such as PBT, PET, PA, POM, PS, ABS, PUR, elastomers BR, SBR, SBS, adhesives and other organic substrates. The B-blends can be used in combination with light stabilizers of UV-absorbers and hindered amine light stabilizers.

# Recommendation for use

In polyolefins, the dosage levels for EVERNOX-B1412 is

between 0.1% to 0.25%, depending on polymers and processing conditions. The optimum level is various of application specific needs.

### **Handling & Safety**

EVERNOX-B1412 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×2 PE bags in the carton box.
- (2) 25 kgs  $\times$ 2 PE bags in the carton box.
- (3) 50 kgs fiber drum.
- (4) Other specific request.

#### Transportation

EVERNOX-B1412 is not dangerous materials according to the transportation regulations.

#### **Storage**

EVERNOX-1412 should be stored under suitable conditions (dry & cool).

Maximum recommended storage temperature under 45°C and the storage time from the date of analysis: 24 months.



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