

EVERNOX®-B110 EVERNOX®-B110GF

Synergistic Processing and Long-Term Thermal Stabilization

Chemical Name 50% EVERFOS-168 : Tris (2,4-di-tert-butylphenyl) phosphite

50% EVERNOX-10: Pentaerythritol Tetrakis (3-(3,5-di-tert-butyl-4-hydroxyphenyl)

propionate)

Formula 50% C₄₂H₆₃O₃P (EVERFOS-168)

50% C₇₃H₁₀₈O₁₂ (EVERNOX-10)

Structure EVERFOS-168 EVERNOX-10

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 $\begin{array}{c|c} (CH_3)_3C \\ HO & \longrightarrow \\ (CH_3)_3C \\ \end{array}$ $\begin{array}{c|c} CH_2CH_2COOCH_2\\ 4 \\ \end{array}$

Molecular Weight 646.9 1178

CAS Number 31570-04-4 6683-19-8

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

Appearance White, free-flowing powder for EVERNOX-B110

White, free-flowing granules for EVERNOX-B110GF

Ash content 0.1% max

Volatiles 0.5% max

Clarity of solution Clear solution

(10g in 100ml toluene)

Transmittance at 425 nm 97.0% min (10g in 100 ml toluene) at 500 nm 97.0% min

Assay EVERFOS-168 48.0~52.0% EVERNOX-10 48.0~52.0%

Physical Properties

Melting range ($^{\circ}$ C) 110-187 $^{\circ}$ C Flash point ($^{\circ}$ C) >150 $^{\circ}$ C

Applications

EVERNOX-B110 and EVERNOX-B110GF 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-B110 and EVERNOX-B110GF are between 0.1% to 0.25%, depending on polymers and processing conditions. The optimum level is various of application specific needs.

Handling & Safety

EVERNOX-B110 and EVERNOX-B110GF 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-B110 and EVERNOX-B110GF are not dangerous materials according to the transportation regulations.

Storage

EVERNOX-B110 and EVERNOX-B110GF 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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