GLCC Laurel, LLC

Technical Information

Thermoguard® FR
Sodium Antimonate

Thermoguard® FR is a high quality, polymer grade, sodium antimonate used as the antimony source to flame retard selected polymers. It can also be used in pigment applications.

Sodium Antimonate
CAS Reg. Number [15432856]

$NaSbO_3$

Typical Properties	
Appearance	Fine White Powder
Specific Gravity	4.80
Refractive Index	1.75
Sieve Residue < 200 mesh %	0.4 max
Typical Composition	
Antimony Content %	60.4 – 63.3

APPLICATIONS

Thermoguard® FR is the recommended antimony synergist to flame retard acid-sensitive polymers such as PET, PBT, PC and certain polyamides.

Thermoguard® FR offers little opacity to plastics due to the products relatively low refractive index. This enables users to produce self-extinguishing products that are semi-transparent. Another desirable feature of Thermoguard® FR is exceptionally low tinctorial strength which permits colour pigments to exercise their maximum effect. This enables solid, uniform colours to be achieved in flame retarded, deep coloured products. Excellent blacks, greens, maroons, wines and other reds can be produced with a reduced pigment content compared to the level required using antimony trioxide.

Thermoguard® FR must be used in conjunction with a halogen. In polyvinyl chloride (PVC) the resin provides the halogen. In other non-halogen containing resins brominated or chlorinated organic additives must be added. The usage level of the Thermoguard® FR wil be dependant on the type of application and the flame resistance required.

PACKAGING

Standard packaging is 50lb moisture proof multiwall paper bag and 2200lb super sack. Packages are on skids with stretch wrap. Special packages are available on request.

HEALTH AND SAFETY

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. For additional handling and toxicological information, consult the GLCC Laurel Material Safety Data Sheet.

One Great Lakes Boulevard • West Lafayette • IN 47906 • Telephone +1 765-497-6100
http://www.pa.greatlakes.com