Technical Data Sheet
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SAYTEX ALERO® Optima™

CAS Number 88497-56-7
EINECS/EC
Molecular Formula

DESCRIPTION

SAYTEX ALERO® Optima™ is a versatile polymeric flame retardant designed for use in thermoplastic formulations. Its polymeric structure provides formulation flexibility across a range of processing conditions while helping manufacturers achieve required fire safety performance.

SAYTEX ALERO Optima supports customizable material properties with demonstrated recyclability. Depending on the resin system and formulation, it can provide efficient flame retardant performance and good appearance while supporting antimony trioxide-reduced or antimony trioxide-free formulations.

APPLICATIONS

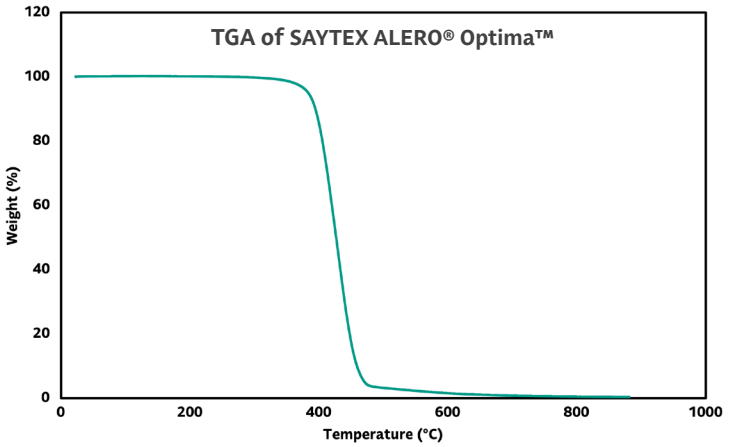
SAYTEX ALERO Optima is targeted at a wide range of thermoplastics and foams applications including HIPS, ABS, PE, PP and PC/ABS. Its unique chemistry imparts favorable overall mechanical and physical properties.

FEATURES & BENEFITS

SAYTEX ALERO Optima flame retardant is in white powder form containing 72-73% bromine. No EPA Significant New Use Rule (SNUR) currently applies to SAYTEX ALERO Optima. Depending on the application, it is easily melt-blendable, returns high melt flow and provides excellent thermal and color stability while retaining high gloss and impact strength.

PHYSICAL PROPERTIES

Property	Value
Appearance/Form	White Powder, PST
% Bromine	~72-73
Specific gravity (23 °C)	~2.3
Glass transition temperature (°C)	~130-140
TGA (TA Instruments, model Q500, 10 °C/min under N_2)	
1% weight loss, °C	343
5% weight loss, °C	384
10% weight loss, °C	395
Solubility (wt. % at 25 °C)	
Water	< 0.01
Acetone	< 2
Methanol	<0.01
Toluene	~78



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