

PowerStab™ 622

New Materials Creating New Performances

**Quality Products.
Dependable Service.**

CHEMICAL NAME

Dimethyl succinate polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidine ethanol

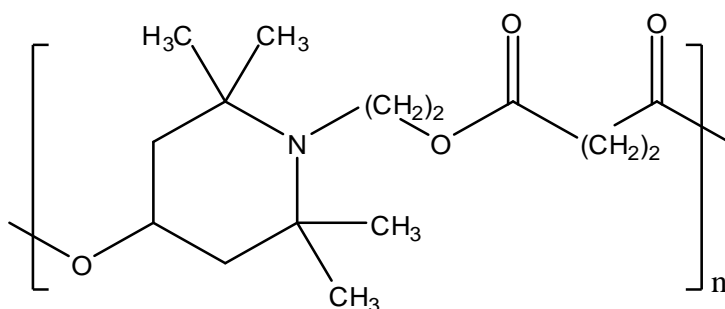
Synonym:

Poly(4-hydroxy-2,2,6,6-tetramethyl-1-piperidine ethanol-alt-1,4-butanedioic acid);

Butanedioic acid, 1,4-dimethyl ester, polymer with

4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol

CHEMICAL STRUCTURE



INTRODUCTION

PowerStab™ 622 is a polymeric hindered amine light stabilizer (HALS) which is effective in a broad range of polymers and applications. It is Non-discoloring, low volatility and excellent resistance to migration, low basicity for reduced interactions with pigments and other stabilizers, and extensive food contact clearances.

PHYSICAL PROPERTIES

CAS No.	65447-77-0
EC No.	n.a.
Formula	(C ₁₅ H ₂₅ NO ₄) _n

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Molecular Weight	3100-4000
Melting Point(°C)	50-70
Specific Gravity _[20°C]	1.22
Vapor Pressure _[20°C, Pa]	2.5E-6
Volatiles(%)	Max.0.5
Color of solution 425nm(%)	Min.98
Color of solution 500nm(%)	Min.99
Appearance	White to yellow granular powder
Ash(%)	Max.0.1

Solubility (20°C)	% w/w
Acetone	4
Chloroform	>40
Ethanol	0.08
Ethyl acetate	3
n-Hexane	<0.01
Methanol	0.05
Methylene Chloride	>40
Toluene	15
Water	<0.01

APPLICATIONS

PowerStab™ 622 is particularly useful in PE applications (injection molding, rotational molding, film, and tape), EVA, PP fibers, polyurethanes, polyacetals, elastomers, adhesives, and sealants. It is also an excellent light stabilizer for systems containing carbon black.

Typical addition levels for PowerStab™ 622 range from 0.05-1.5%, depending upon the application. The exact level to be used in any particular application should be determined in an appropriate testing program.

HANDLING AND STORAGE

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In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

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

PACKING

PowerStab™ 622 is supplied in 25kg net/carton.

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