



ADVASTAB™ TM-291

Thermal Stabilizer for Siding and Fence Substrate

Description

ADVASTAB TM-291 additive is a high efficiency liquid methyltin mercaptide stabilizer for rigid Vinyl extrusions. ADVASTAB TM-291 stabilizer provides excellent early color stabilization and superior dynamic processing stabilization. This lubricating stabilizer is well suited for rigid Vinyl formulations where prolonged and severe processing temperatures are normally encountered. ADVASTAB TM-291 stabilizer is particularly suited for performance parameters of siding substrate but can be employed in window profile to good effect as well. It is compatible with most impact modifiers and processing aids.

Typical Physical Properties

Gardner color	< 9
Appearance	Amber liquid
% Tin	12.0
Viscosity @ 23°C, cps (Brookfield)	106

Applications and Features

- Excellent stabilizer for rigid extruded Vinyl for building and construction applications.
- Provides excellent long-term color and impact strength retention in outdoor applications including siding, trim, accessories, and window lineals.
- Allows for efficient use of regrind.

Standard Packaging

1225 kgs (2,700 lbs) returnable tote tanks.
1179 kgs (2,600 lbs) non-returnable "Schutz" containers.

Storage

Store in cool, dry area. Indoor storage is recommended. Stainless steel is recommended for piping, valves, and pumps used to handle ADVASTAB TM-291 stabilizer. No wetted parts of the stabilizer handling and dispensing system should be made from iron, brass, copper, or bronze.

Handling

ADVASTAB TM-291 stabilizer is a liquid tin mercaptide heat stabilizer and should be handled with normal precautions used in good industrial practices for organic liquids. See Material Safety Data Sheet for safety and health information.

Specific Application

I. Extrusion for Siding Substrate Applications

ADVASTAB TM-291 stabilizer is a highly effective stabilizer for the extrusion of rigid Vinyl building products. Consistently high output rates and efficient production quality are attainable due to an extra margin of stability provided by ADVASTAB TM-291 stabilizer. The formulation listed below shows typical ranges utilized for the production of siding substrate on twin screw extruders.

Vinyl Homopolymer (K=68)	100
ADVASTAB TM-291	0.9-1.2
PARALOID KM-348	4.5
Calcium Stearate	1.0-1.5
Paraffin Wax	0.8-1.0
Oxidized polyethylene wax	0.15
TiO ₂	1.0
Coated CaCO ₃	10-12



PLASTICS ADDITIVES

Toxicity

Although ADVASTAB TM-291 additive poses no unusual problems, it contains an ORGANOTIN COMPOUND. It should be handled with the same care as other chemical additives. Avoid contact with skin and eyes. Avoid prolonged breathing of dust and vapors.

Material Safety Data Sheets

Material Safety Data Sheets are available outlining hazards and safe handling methods. Contact Rohm and Haas for copies of the MSDS for this product and for other handling information.

AMERICAS

Corporate Headquarters
Rohm and Haas Company
100 Independence Mall West
Philadelphia, Pennsylvania 19106-2399
USA
Tel: +1 215 592 3000
email: plastad_nar@rohmmaas.com

Customer Service: Tel: 1 800 356 3402 (Toll-Free from Canada and the USA)
Fax: 1 888 654 0599 (Toll-Free Fax Direct to Customer Service in Canada)
Fax: 1 877 696 9675 (Toll-Free Fax Direct to Customer Service in USA)
Tel: +1 215 592 3117 (from Mexico, Central and South America and the Caribbean)
Fax: +1 215 592 2047

ASIA-PACIFIC

Rohm and Haas Japan K.K.
KSP Bldg. D-10F, 3-2-1 Sakado
Takatsu-ku, Kawasaki, Kanagawa Pref.
Tokyo 213-0012
Japan
Tel: +81 (0)44 814 8100
Fax: +81 (0)44 814 8121
email: plastad_apr@rohmmaas.com

EUROPE

Rohm and Haas UK Ltd
Lennig House
2 Mason's Avenue
Croydon CR9 3NB
United Kingdom
Tel: +44 (0)20 8774 5368
Fax: +44 (0)20 8774 5369
email: plastad_er@rohmmaas.com

Visit Plastics Additives at the Rohm and Haas Website: www.rohmmaas.com/PlasticsAd

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