



Thermolite® 150
PVC BUTYLTIN HEAT STABILIZER

Product Description

Thermolite® 150 is a high efficiency butyltin PVC heat stabilizer created for high output extrusion and injection molding. It is designed for co-extruded siding, window profiles, fittings and other demanding rigid PVC applications that require high performance, consistent stabilization and excellent color-hold properties. Thermolite® 150 heat stabilizer can be used under a wide range of processing conditions.

Typical Physical Properties

Physical Form	Clear Oily Liquid, Pale Yellow
Color (Gardner)	1
Viscosity @ 25°C, cs	104
Specific Gravity @ 25°C	1.09
Refractive Index @ 25°C	1.52
Tin Content	16%
Mercapto Sulfur Content	11.5%

Product Benefits

The advantages of using Thermolite® 150 heat stabilizer in PVC formulations include:

1. Excellent cost/performance ratio.
2. Excellent lubricity leading to stable, high output extrusion.
3. Excellent initial and long term color hold.
4. Outstanding dynamic term stability.
5. Low amperage and back pressure for high extrusion rates.

Suggestions for Use

Thermolite® 150 heat stabilizer can be used in many rigid PVC applications. It has proven to be especially effective for use in co-extruded siding, window profiles and fittings.

Customers should evaluate Thermolite® 150 heat stabilizer in their own laboratories to establish optimum conditions for use in their processes and applications. PMC Organometallics' Technical Service Department will be happy to discuss your application requirements.

Starting Formulation Recommendations

Window Profile	
PVC Resin (K-67)	100.0 phr
Thermolite® 150	1.0 – 1.5
Internal Lubricant	1.0 – 1.5
External Lubricant	1.0 – 1.5
Acrylic Process Aid	1.0 – 1.5
Acrylic Process Aid (Metal Release)	0.5– 1.0
Acrylic Impact Modifier	5.0 – 6.0
Calcium Carbonate (0.8 µm)	0.0 – 5.0
Titanium Dioxide	9.0 – 10.0

Injection Molding (Fittings)	
PVC Resin (K-58)	100.0 phr
Thermolite® 150	1.5 – 2.0
Calcium Stearate	1.0 – 1.2
Paraffin Wax (165°F mp)	0.8 – 1.2
Acrylic Process Aid	1.0 – 2.0
Acrylic Impact Modifier	2.0 – 3.0
Calcium Carbonate (0.8 µm)	3.0 – 5.0
Titanium Dioxide	0.0 – 1.0

Packaging

Contact Customer Service regarding the specific packaging sizes for Thermolite® 150 heat stabilizer.



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Environmental and Safety Information

BEFORE HANDLING THIS MATERIAL, READ AND UNDERSTAND THE MSDS (MATERIAL SAFETY DATA SHEET) FOR ADDITIONAL INFORMATION ON PERSONAL PROTECTIVE EQUIPMENT AND FOR SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION. For Environmental, Safety & Toxicology information, contact our Customer Service Department at 1-855-638-2549 (1-855-METALIX) to request a Material Safety Data Sheet.

More Technical Information Available

Ask your PMC Organometallic account manager for further information about other high quality PMC Organometallic's additives for use in PVC resins, PVC alloys and other polymer systems. PMC Organometallic produces a full line of heat stabilizers. In addition, PMC Organometallic's Technical Service staff is available to assist compounders and processors to solve formulation and processing problems.

Thermolite® Heat Stabilizers

Thermolite® heat stabilizers are designed for use in the production of rigid, semi-rigid, foamed and flexible PVC products. PMC Organometallic has developed PVC heat stabilizers specifically for extruded siding, profiles and pipe, injection molding, blow molded bottles and calendered or extruded sheet. PMC Organometallic offers a full line of stabilizers that meet FDA requirements for food grade PVC packaging and a full line of NSF authorized stabilizers for PVC potable water pipe & fittings.

Biogenix Lubricants

PMC Biogenix's lubricants include Calcium, Zinc, Lithium, and Magnesium stearates that meet FDA requirements for food grade PVC packaging as well as NSF requirements for PVC potable water pipes & fittings. Our PVC lubricants such as Industrene®, Hystrene®, Kemester®, Kemamide® and heat stabilizers together offer a comprehensive PVC package for production of rigid, semi-rigid, foamed, and flexible PVC applications such as extrusion molding, injection molding, blow molding, calendering, siding, profiling, piping etc.

CrystalWax for Rigid PVC Lubrication

Crystal manufactures a broad range of standard blends utilizing paraffin and polyethylene waxes along with the option of blending EBS, GMS and other lubricating esters produced by PMC Biogenix. CrystalWax lubricants are also available in custom formulations to meet specific customer requirements. CrystalWax formulations find uses in PVC siding, window profiles, fencing, decking and trim applications to highlight a few.



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