

ADVALUBE™ F-1020

Specialty Lubricant

Description

ADVALUBE™ F-1020 is a fatty acid ester-based, internal lubricant for rigid and semi-rigid Vinyl processing.

General Characteristics

Properties	Typical Values
Appearance	Ivory powder
Melting Range °C	42 - 47
Acid Value	3 Max
Saponification Value	160 - 175

Benefits

- Very effective internal lubricant giving lower melt viscosity and reduced amperage during processing
- Imparts excellent melt flow during Vinyl extrusions or injection molding, especially on complicated dies
- Highly compatible with Vinyl polymers leading to excellent clarity in sheet and film processing
- Gives excellent, smooth surface appearance to end products
- Broadens process window allowing excellent performance across different equipment setups

Applications

- Vinyl calendered and extruded films and sheet
- Vinyl window profiles
- Vinyl injection molding

Typical Dosage

Dosage levels of between 0.3 - 1.0 phr are recommended.

Safety & Handling

Follow good manufacturing and handling practices. Store in cool, dry, well-ventilated area. Shelf life is 24 months.

Packaging

- 55 pound (25kg) PE bags on 2200 pound (998kg) pallets
- 1100 pound (500kg) super sacks

PMC Biogenix
1231 Pope St.
Memphis, TN 38108
USA
Customer Service
800 641 2152
or +1 901 325 4930
Fax 800 641 2153

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Specific Applications

Vinyl Window Profile	Normal	High Gloss
Vinyl Resin (K=66-67)	100.0 phr	100.0 phr
ADVASTAB™ TM-181FS	1.0 - 1.3	1.0 - 1.3
ADVALUBE™ F-1020	0.5 - 0.8	0.5 - 0.8
Paraffin Wax (165°F mp)	0.6 - 1.0	0.6 - 1.0
ADVAWAX™ 280	–	0.3 - 0.5
Calcium Stearate	0.6 - 0.8	0.6 - 0.8
Process Aid	1.0	1.0
Lubricating Process Aid	0.5	0.5
Acrylic Impact Modifier	4.0	4.0
TiO ₂	7.0 - 10.0	7.0 - 10.0
CaCO ₃ (Ultra-Fine)	5.0	5.0

Alternative Tin Stabilizers:

ADVASTAB™ TM-186 - Thioglycolate better early color

ADVASTAB™ TM-286SP - High efficiency reverse ester

Thermolite® 385 - High efficiency, high output butyltin mercaptide

Vinyl Injection Molding	Normal
Vinyl Resin (K=58-60)	100.0 phr
ADVASTAB™ TM-181FS	1.3 - 1.5
ADVALUBE™ F-1020	0.7 - 1.0
Paraffin Wax (165°F mp)	0.5 - 0.7
Calcium Stearate	0.5 - 0.7
Process Aid	1.5
MBS Impact Modifier	3.0 - 4.0
TiO ₂	1.0 - 2.0
CaCO ₃ (Ultra-Fine)	5.0

Alternative Tin Stabilizers:

ADVASTAB™ TM-599A – High efficiency reverse ester

ADVASTAB™ TM-283SP – High efficiency reverse ester

Thermolite® 108 - High efficiency butyltin thioglycolate

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Environmental & 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 800-641-2152 or 901-325-4930 to request a Material Safety Data Sheet.

More Technical Information Available

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

Thermolite® & ADVASTAB™ Heat Stabilizers

Thermolite® and ADVASTAB™ heat stabilizers are designed for use in the production of rigid, semi-rigid, foamed and flexible PVC products. PMC Organometallix has developed PVC heat stabilizers specifically for extruded siding, profiles and pipe, injection molding, blow molded bottles and calendered or extruded sheet. PMC Organometallix 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.

ADVAPAK™, ADVALUBE™ & ADVAWAX™ for Rigid PVC Lubrication

Biogenix offers a wide range of performance lubricants for PVC processing. ADVALUBE™ and ADVAWAX™ include every lubricant class from esters to amides to paraffin waxes. ADVAPAK™ lubricants are custom formulations to meet specific customer requirements. ADVALUBE™, ADVAWAX™ and ADVAPAK™ products find uses in PVC pipe, siding, window profiles, film and sheet, molding, fencing, decking and trim applications.

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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