

EXPLORE AND EXPAND



SUSTAINABLE
CREATIVE
SOLUTIONS



GREEN CHEMISTRY
Inspired by NATURE

WAXES & LUBRICANTS



ABOUT SYNERGY

Synergy Polyadditives is a globally recognized, privately owned company specializing in innovation, development & manufacturing of high-performance additives for the plastic industry. Since our inception we have continually evolved driven by a powerful blend of customized R&D and a deep understanding of both current and emerging needs of polymer processors.

Our approach is rooted in collaboration. We work intimately with our clients to deliver precise, customized sustainable and eco-conscious solutions.

Synergy Polyadditives plays a leading role in developing Waxes & lubricants system for processing of Vinyl polymers (PVC/CPVC), Polyolefins, Engineering and Elastomeric compounds.

SYNERGY Innovate Polymer Processing Additives

- Polyethylene waxes
- Oxidized Polyethylene waxes
- Nature and Synthetics Paraffin waxes
- Amide and Ester waxes
- Speciality waxes and Metallic Stearates

Synergy Polyadditives has emerged out with a number of highly efficient additives systems being marketed under the trade names **SYNOFLOW, SYNOLUB, LUBPACK, SYNOSTAT, SYNOCOM, SYNOSOAPS.**



SYNERGY

PASSION IN ACTION

Our actions are Alligned and Driven by our
Vision, Mission & Core-Values



VISION

“ *Always ahead with Technology* ”

To be one of the leading polymer additive manufacturing company in global perspective and always continue our crusade for achieving unique standards in quality, productivity and client contentment..



MISSION

Providing highest quality additive solutions through innovation and efficiency while prioritising environment safety and customer satisfaction.



CORE VALUES

Customer-centric approach and ethical transparency in all our business operations.



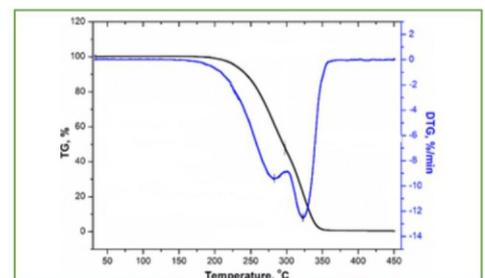
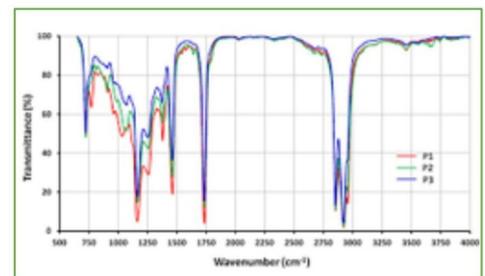
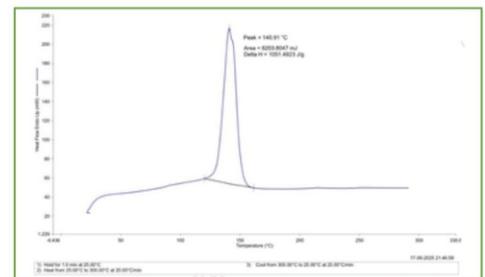
DEVELOPMENTS, PERFORMANCE & SUSTAINABILITY



Synergy Polyadditives is focusing on developing polymer processing additives to conform parameters of ASTM standards through :

- Strong R&D with environment responsibility.
- Focus on regulatory compliance and green chemistry principles.
- Eco-friendly and non-toxic formulations.
- End products with good strength properties, aesthetics and extended life span.

Alongside technical support, formulation guidance, and troubleshooting, Synergy Polyadditives also undertake customized additive development projects on sponsorship basis.



SALIENT FEATURES

- Reduced glass transition temperature (T_g)
- Decreased viscosity of polymer processing
- Reduced friction between polymer molecules
- Prevention of localized heating



PRODUCTS & SERVICES

POLYMERS PROCESSING ADDITIVES



WAXES AND LUBRICANTS

Synergy Polyadditives plays a leading role in developing waxes & lubricants systems for processing of vinyl polymers (PVC/CPVC), Polyolefins, Engineering and Elastomeric compounds.

Lubricants are special chemical agents used in polymer processing to reduce friction & sticking between polymer molecules & processing equipment. They improve melt flow, prevent sticking or drag during extrusion or moulding & enhance surface finish & productivity

FUNCTION DISCHARGED :

WETTING & DISPERSING AGENTS

- » Permit incorporation of higher filler loadings.
- » Increase colour strength /intensity leading to cost efficient coloration.
- » Due to amphiphilic nature, they easily convert larger agglomerates into smaller aggregates.

ANTI-BLOCK / SLIP AGENTS

- » Lower coefficient of friction (COF)
- » Reduce film to film adhesion (Blocking)
- » Improve film separation during winding/un-winding.
- » Improve bag opening & handling.

MOULD RELEASE AGENTS

- » Improved mould fill operation.
- » Prevents localised heating due to formation of protective layer.
- » Facilitated Di-mould.

ANTI-STATIC AGENTS

- » Remove electrostatic charge.
- » Lesser dust formation.



Lubrication



Flow Improvement



Processing Stability



Release Property Improvement

SALIENT FEATURES

Impart excellent internal, external and multifunctional lubrication for enhanced processing performance.

Provide effective mould release effect to facilitate demolding operation.

Eliminate surface defects like flow manes & flow lines.

Excellent dispersion aids to ensure product uniformity.

Discharge effective antiblock / slip function to impart easy film separation & bag opening.

APPLICATION AREAS

- » PP, PE, LDPE, HDPE compounding.
- » ABS, EVA, Polyamide and other engineering polymer compounding.
- » PVC and CPVC- pipes, pipe-fittings, profiles, sheets & cables processing.
- » Colour, additive and filler masterbatches.

PRODUCT FORMS



Non-Dusting Powder



Prills



Flakes



Granules



Microbeads

ADDITIVES FOR CPVC PROCESSING PIPES, PIPE-FITTINGS AND SHEETS



PRODUCT	CHEMICAL DESCRIPTION	PHYSICAL FORM	MELTING RANGE (°C)	ACID VALUES (MGKOH/G)	DOSES (%)	APPLICATION / FUNCTION
SYNOFLOW PE-620	Polyethylene homopolymer wax	Prills	114 ± 4	—	0.4-0.8	External lubricant for pipe fittings
SYNOFLOW PE-7000	Polyethylene wax	Beads	105 ± 5	—	0.8-1.0	External lubricant for CPVC pipes and pipe fittings
SYNOFLOW PE-630	Polyethylene homopolymer wax	Flakes	120-122	—	0.6-0.8	CPVC Recycle compounds
SYNOFLOW OPE-3029	Low density oxidised polyethylene wax	Powder	100-103	14.0-16.0	0.8-1.0	External lubricant / Mould release agent for CPVC pipes and pipe fittings
SYNOFLOW OHPE -3016	High density oxidised polyethylene wax	Powder	140-144	15.0-17.0	0.2-0.3	Mould release agent/external lubricant for CPVC pipes and pipe fittings
SYNOFLOW OHPE-4016	High density oxidised polyethylene wax	Powder	135-138	14.0-16.0	0.4-0.5	Mould release agent / external lubricant for CPVC pipes and pipe fittings
LUBPACK SN-925	Multifunctional Co-Stabilizer lubricant onepack	Non-dusting Powder	105-110	1.0-2.0	0.8-1.2	New generation Synergistic co-stabilizer for organo-tin based stabilizer system
LUBPACK SN-945	Multifunctional Co-Stabilizer lubricant onepack	Non-dusting Powder	110-115	1.0-2.0	1.0-1.5	New generation Synergistic co-stabilizer for organo-tin based stabilizer system



ADDITIVES FOR uPVC PROCESSING



PIPES & PIPE FITTINGS, PROFILES, FLOORING AND WPC FOAM BOARDS

PRODUCT	CHEMICAL DESCRIPTION	PHYSICAL FORM	MELTING RANGE (°C)	ACID VALUES (MGKOH/G)	DOSES (%)	APPLICATION / FUNCTION
SYNOFLOW PE-300	PE homopolymer wax	Flakes/ Prills	111-115	—	0.4-0.6	Internal/external for PVC pipes & pipe fittings, Flooring, WPC foam sheets & boards
SYNOFLOW PE-620	PE homopolymer wax	Prills	114-118	—	0.6-0.8	Dispersing agent for uPVC pipe-fittings as an internal lubricant
SYNOFLOW PE-670	PE homopolymer wax	Beads	105 ± 5	—	0.4-0.6	External lubricant for uPVC pipe and pipe fittings
SYNOFLOW OHPE-3016	Oxidized high density PE wax	Prills	140 ± 5	16 ± 1	0.3-0.5	uPVC pipes & pipe fittings
SYNOFLOW OPE-3011	Low density Oxidised PE wax.	Prills	100± 5	15 ± 1	0.4-0.5	uPVC pipes & pipe fittings
SYNOFLOW FT-95	Fischer-Tropsch wax	White Prills	Softening Point 95-105	—	0.5-1.5	uPVC window & technical profiles, Flooring, WPC Foam Sheets & boards
SYNOLUB N-20	Fatty acid	Beads	54-56	190-210	0.1-0.5	uPVC pipes & pipe fittings
SYNOLUB SN-6020	Dicarboxylic acid ester	Powder	43-53	—	0.8-1.4	Universal internal lubricant for rigid and foamed PVC
SYNOLUB SN-6050	Aliphatic ester	Flakes / Microgranules	55-60	—	0.8-1.2	Rigid & flexible extrusion PVC boards & foamed sheets, Shoes, toys, calendered sheets, hoses and tube
SYNOLUB FP-65	Proprietary	Flakes	78-80	—	0.8-1.0	PVC window & technical profiles
LUBPACK SN-23	Proprietary	Powder	90-105	—	1.2-1.5	Rigid PVC pressure pipes
LUBPACK SN-25	Proprietary	Powder	90-115	—	1.2-1.5	Rigid PVC Extrusions for non-pressure pipes.
LUBPACK SN-6030	Proprietary	Non-dusting powders/ Flakes	92-95	2.0-3.0	0.8-1.0	WPC foam boards
LUBPACK SN-6040	Proprietary	Non-dusting powders/ Flakes	95-100	2.0-3.0	0.8-1.0	Flooring and WPC foam boards

ADDITIVES FOR FLEXIBLE PVC

CABLE, SHOES, TOYS AND CALENDERED SHEETS

PRODUCT	CHEMICAL DESCRIPTION	PHYSICAL FORM	MELTING RANGE (°C)	ACID VALUES (MGKOH/G)	DOSES (%)	APPLICATION / FUNCTION
SYNOFLOW PE-110	PE homopolymer wax	Flakes	100-105	—	0.4-0.6	Recycle footwear compounds
SYNOFLOW PE-200	PE homopolymer wax	Flakes	105-110	—	0.5-0.7	Recycle cable compounds
SYNOFLOW PE-620	PE homopolymer wax	Prills	114-118	Nil	0.5-0.8	Lubricant for PVC cables compounds. Dispersing agent for filled cable compounds
SYNOLUB SN-12	Olechemical derivatives	Non-dusting powder	58-60	Nil	0.5-1.5	Shoes, toys, calendered sheets, hoses and tubes
SYNOLUB SN-728	Partial ester for Polyols	Non-dusting powder	52-54	Nil	0.5-1.5	PVC wire & cables for high-speed extrusion
LUBPACK SN-10C	Synergistic co-stabilizing One pack lubricant system	Non-dusting powder	100-104	Nil	1.0-2.0	Composite lubricant for PVC cables compounds
LUBPACK SN-034C	Synergistic co-stabilizing One pack lubricant system	Non-dusting powder	90-95	Nil	1.5-1.8	PVC wire & cables to enhances processing rate
LUBPACK SN-1605	Proprietary	Flakes / Micro-beads	84-88	Nil	1.2-1.4	Shoes, toys, calendered sheets, hoses and tubes
LUBPACK SN-6050	Aliphatic ester	Flakes / Micro-granules	55-60	Nil	1.1-1.2	Rigid, semi-rigid & flexible extrusion PVC boards & foamed sheets, Shoes, toys, calendered sheets, hoses, cables and tubes

LDPE, HDPE, POLYOLEFINES, PP COMPOUNDING

PRODUCT	CHEMICAL DESCRIPTION	PHYSICAL FORM	MELTING RANGE (°C)	DOSES (%)	APPLICATION / FUNCTION
SYNOLUB-10	Fatty acid derivative	Liquid	—	0.5-1.0	Lubricant, Wetting and dispersing agent for PP compounding
SYNOLUB-101	Polyol ester wax	Powder	53-61	1.4-1.8	Lubricant and dispersing aid for Master batches and PP compounding
SYNOLUB -401	Bisamide wax	Powder	142-146	0.1-0.3	Used in almost all major plastic processing as lubricant, mold release agent, antiblock / slip additive and dispersing agent
SYNOLUB-402	Primary amide	Micro Granules/ Powder	78-80	0.1-0.3	As slip/antiblock agent for polyolefin film and sheets (LDPE/LLDPE/PP/EVA)
SYNOLUB-403	Primary amide	Micro Granules/ Powder	70-75	0.02 - 0.3	As slip, antiblock agent for polyolefin film and sheets (PE/LLDPE/PP/EVA)
SYNOLUB SN-32	Ester wax	Powder	52-56	0.5-1.0	Lubricant for PP compoundings
SYNOLUB-NM	An unsaturated secondary Bisamide composition	Micro beads/ powder	102 ± 2	0.1-1.0	used as antiblock agent and release agent for plasticized PVC, calendered sheets and films
SYNOSTAT-95	High mono glyceride GMS	Beads	67-71	0.1-0.5	Antistatic agent for food grade application polyolefins
LUBPACK-034	Blend of metal soap & amide	Powder	100-105	1.0-1.5	Talc-filled PP Compound, master batches

ADDITIVES FOR POLYOLEFINES

COLOUR, ADDITIVES AND FILLER MASTERBATCHES

PRODUCT	CHEMICAL DESCRIPTION	PHYSICAL FORM	MELTING RANGE (°C)	DOSES (%)	APPLICATION / FUNCTION
SYNOFLOW - PE-670	Polyethylene wax	Powder	100-105	3.0-5.0	Masterbatches based on PE compounds
SYNOFLOW-OPE-3029	Low density Oxidised Polyethylene wax	Beads	100-103	4.0-8.0	Master batches based on PE Compounds, molding and Extrusion
SYNOFLOW - AF	Synthetic wax	Flakes	84-87	3.0-5.0	Based on PE master batches, filled compounds and antifab compounds [AFMB]
SYNOCOM- 016	Blend of metal soap & amide wax	free flow powder	100-105	1.0-2.0	Processing aid for highly filled compounds, colour masterbatches and TPO/TPE compounds based on PE and PP
SYNOCOM-025	Oleo chemical derivatives	Powder/ Flakes	58 ± 5	0.5-1.0	High performance wetting and dispersing agent in colour masterbatches and carbon-black based plastic compounds
SYNOCOM-052	Blend of metal soap & amide	free flow powder	105-110	1.0-2.0	Processing aid for highly filled compound, colour masterbatches, TPO/TPE compounds based on PE
SYNOLUB-CB	Fatty acid derivative	liquid	—	0.5-2.0	Wetting and dispersing agent for carbon black and organic pigments in PE compounds
SYNOLUB DW-10	Fatty acid derivative	liquid	—	0.5-1.0	Wetting and dispersing agent for titanium dioxide and inorganic pigments in PE compounds
SYNOLUB DW-91	Oleochemical derivative	liquid	—	0.5-1.0	Wetting and dispersing agent for PE compounds
LUBPACK - HW	Hydrocarbon wax	Powder	54-58	0.5-3.0	High-performance dispersing aid for color masterbatches and carbon black-based masterbatches in PE compounds
LUBPACK-795	Oleochemical derivative	Powder / Granules	50-54	1.0-2.0	An excellent wetting & dispersing agent for titanium dioxide based white masterbatches based on PE

ABS, SAN, PMMA, POLYCARBONATE AND POLYAMIDE

PRODUCT	CHEMICAL DESCRIPTION	PHYSICAL FORM	MELTING RANGE (°C)	DOSES (%)	APPLICATION / FUNCTION
SYNOLUB CL-32	Ester wax	Powder	52-56	1.0-1.5	Lubricant for ABS, Polycarbonate & polyamide
SYNOLUB CL-40	Ester Wax	Liquid	—	1.0-1.5	Flow improver and internal mold release agent for SAN and PET-PBT
SYNOLUB -DA	Bisamide wax	Powder	142-146	0.1-0.25	Lubricant for ABS and polyamide; release agent for PET and PBT; dispersing agent for polystyrene and SAN
SYNOLUB IL-20	Fatty acid	Beads	54-56	0.1-0.5	Lubricant for PMMA
SYNOLUB-SS	Stearyl stearamide	Powder	88-92	0.2-0.3	Release agent for PMMA, polyamide and PET-PBT
SYNOLUB-91	Aliphatic ester	Powder/Granules	43-44	2.0-5.0	Primarily functions as lubricant & Release agent with plasticizing effect in Rubbers and Plastics
SYNOLUB SN-182	Heat stable zinc stearate	Powder	118-125	0.5-0.8	Mould release agent for LD/HD in engineering polymers/blends & alloys
SYNOLUB-200	Short chain monol ester	Liquid	20-21	0.4-0.6	Dispersing agent for PC, ABS, SAN, PMMA, PVC/ABS, PU/PVC in engineering polymers/blends & alloys
SYNOLUB-401	E.B.S	Powder	135-145	0.6-1.2	Dispersing agent for PC, SAN, PMMA, PVC/ABS, LD/HD, PU/PVC, PC/PBT/PET in engineering polymers/blends & alloys
SYNOLUB-7119	Fully esterified ester of polyols	Powder	62-68	0.2-0.3	An ideal low volatility processing aid, flow promotor and mold release agent for PC, PET, TPVs and Engineering plastics e.g. polyamides, ABS etc
SYNOSTAT -95	95% mono glyceride GMS	Beads	67-71	0.5-1.5	Antistatic agent for Polystyrene, SAN and PET-PBT
LUBPACK IL-53	Fatty alcohol	Flakes / Granules	50-54	0.2-0.3	Release agent for Polystyrene & SAN. Lubricant for PMMA
LUBPACK-151	Nitrogen containing Oleochemical derivatives	Solid	44-48	1.0-1.5	Antistatic agent for ABS
LUBPACK IL-129	Oleochemical derivative	Powder	67-71	0.1-0.5	Internal mold release agent for ABS and SAN. Lubricant for PMMA & Polyamide

PET-PBT, EVA, POLYSTYRENE

PRODUCT	CHEMICAL DESCRIPTION	PHYSICAL FORM	MELTING RANGE (°C)	DOSES (%)	APPLICATION / FUNCTION
SYNOLUB-10	Polyol Derivative	Liquid	200 (FP)	1.2-1.5	Wetting & dispersing agent for PU/PVC composite used as engineering Polymers
SYNOLUB DW-18	Oleochemical derivative	Liquid	—	0.5-2.0	Wetting and dispersing agent for PET-PBT
SYNOLUB EL-748	Low volatility polyol esters	Powder	60-62	1.0-1.5	Release agent for polycarbonate, polyamide and PET-PBT and lubricant for ABS
SYNOLUB IL-15	Fatty acid ester	Powder	54-58	0.5-1.0	Lubricant for Polystyrene
SYNOFLOW - AF	Synthetic wax	Flakes	84-87	1.0-2.0	Dispersing agent for PET-PBT
SYNOSTAT - CDA	Nitrogen containing Oleochemical derivatives	Liquid	—	0.6-0.8	Antistatic agent for Polystyrene

ABS, SAN, PMMA, POLYCARBONATE AND POLYAMIDE

PRODUCT	CHEMICAL DESCRIPTION	PHYSICAL FORM	MELTING RANGE (°C)	DOSES (%)	APPLICATION / FUNCTION
SYNOFLOW PE-620	Polyethylene wax	Powder	114-118	1.5-2.0	Flow improver for Synthetic rubbers
SYNOLUB -011	Blend of metal Soap & amide wax	Powder	104-107	1.0-1.5	Processing aid for EVA footwear/ sheet
SYNOLUB -21	Fatty acid Ester	Powder	72-80	1.0-1.5	Compatible Internal lubricant for EVA compound
SYNOLUB -401	Bisamide wax	Powder	142-146	0.1-1.0	Internal mold release agent for PU that can influence printing properties and act as a lubricant for synthetic rubbers
SYNOLUB GL-728	Polyol ester	Powder	52-56	0.2-0.5	Release agent for Synthetic rubbers
SYNOLUB EL-70	Complex ester	Powder	54-56	0.5-0.8	External lubricant for Rigid PVC films/ sheets. Suitable for processing through calendaring, extrusion, blow and injection molding
SYNOLUB EL-74	Complex polymeric ester	Powder	54-56	0.5-1.0	Compatible external lubricant for rigid PVC films and sheets through Calendaring process. Also recommended for use with organo-tin stabilized rigid PVC pipe fittings
SYNOLUB EL-748	Complex ester	Powder	60-62	1.0-1.5	Release agent for PU
SYNOLUB IL-11	Fatty acid Ester of polyol	Powder	83-87	0.5-2.5	Release agent for PU
SYNOLUB IL-12	Olechemical derivative	Powder	58-60	0.5-1.0	Lubricant for PU
SYNOLUB IL-20	Fatty acid	Flakes/ beads	54-56	1.0-2.0	Release agent for Synthetic rubbers
SYNOLUB IL-129	Olechemical derivative	Powder	67-71	0.5-1.0	Flow improver & internal mold release agent for EVA
SYNOLUB SN-53	Fatty alcohols	Micro Granules/Flakes	50-52	0.4-0.6	Internal lubricant for PVC injection molding
SYNOSOAPS SN-182	Zinc Stearate	Granules / Non-Dusting Powder	120-122	0.8-1.0	High heat-stable additives designed for polyolefins (SMC/DMC compounds) also serve as non-dusting stabilizers and lubricants for PVC and ABS applications
SYNOSOAPS SN-187	Modified Calcium Stearate	Granules / Non-Dusting Powder	145-150	1.0-1.2	RoHS Certified High Heat Stable for PP, PS, ABS & EVA
SYNOSTAT-95	High monoglyceride GMS	Beads	67-71	1.0-1.5	Antistatic agent for EVA

SUSTAINABLE ADDITIVES SOLUTIONS

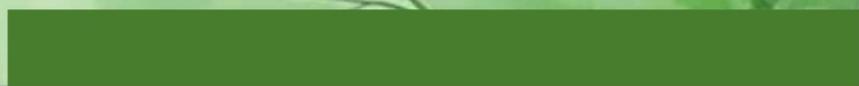


Adding life to polymers.....



GREEN CHEMISTRY INSPIRED BY NATURE

Lubricants & Flow Modifiers



EXPLORING OUR GLOBAL REACH TO EXPAND



ECO-FRIENDLY

**REDUCE
CO₂ EMISSION**



**USE RENEWABLE
RESOURCES**

Sustainable Additives



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