

EXPLORE & EXPAND



INDIA'S LEADING

POLYMER ADDITIVES MANUFACTURER

*The strong bond
you can trust on...*





ABOUT SYNERGY

Synergy Polyadditives is a globally recognized, privately owned company specializing in the innovation, development & manufacturer of high-performance additives for the plastic industry. Our additive systems range effectively fulfils the processing needs of a wide spectrum of polymers including Polyvinyls, Polyolefins, Engineering Polymers, Styrenic polymers and Elastomers. Since our inception in **1986**, 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 solutions while remaining sincerely committed to sustainable, eco-conscious production practices. Every product we create reflects our dedication to quality, cost-effectiveness and environmental responsibility.

SYNERGY Innovate Polymer processing additives

Stabilizer one packs: Based on Calcium-Zinc, Organo-tin, Calcium organic, Metal Soap and Low-lead hybrid systems.

Waxes and lubricants: Polyethylene waxes, Oxidized polyethylene waxes, Hydrocarbon waxes, Ester waxes, Amide waxes and Co-stabilizing lubricant one packs.

Process modifiers & special effect additives: Wetting & dispersing agents, mould release agents, antistatic agents, anti-slip agents, anti-block, antifogging & viscosity depressant.

Speciality additives: Oligomeric Processing Aids & Impact Modifiers, Co-stabilizers, Boosters, Halogen free fire retardants, Matting agents, Coupling agents (MAH) and Metallic stearates.

Synergy Polyadditives has emerged out with a number of highly efficient additive systems being marketed under the trade names **MEGACOM**, **MEGAPACK**, **SYNOPACK**, **SYNOSTAB**, **SYNOLUB** and **SYNOCOM**.

SYNERGY

PASSION IN ACTION

Our actions are Aligned 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 customer expectation.



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.

INNOVATION CENTER



R & D Lab



Application Center

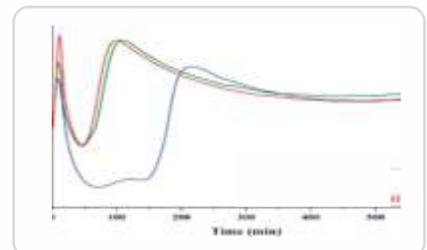
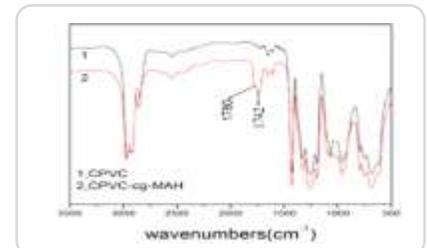
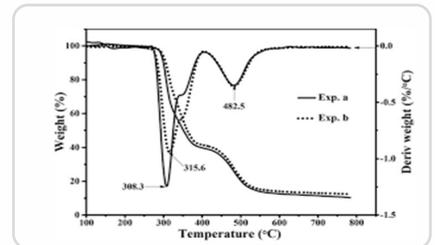


DEVELOPMENT, PERFORMANCE & SUSTAINABILITY

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

- Strong R&D with environmental responsibility.
- Focus on regulatory compliance and green chemistry principles.
- Eco-friendly 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.



Pilot Plant

SALIENT FEATURES

- ✔ Quality Consistent
- ✔ Future Oriented
- ✔ Customized additives solution
- ✔ Technically Supported

PRODUCTS

& SERVICES

POLYMERS PROCESSING ADDITIVES

Heat stabilizer one packs:

Heat stabilizers are an important and essential class of additives used for safeguarding PVC from the degradative effects of heat during processing and service.

Keeping with the commitment to preserve environment synergy emphasize to produce environment friendly non-toxic range of stabilizers based on calcium-zinc, calcium organics and organic co-stabilizers.

These additives are being marketed under the trade names **“SYNOSTABS”** and **“SYNOPACKS”**.

The latest inclusions in our product range are **“Ready to Process”** organo-tin stabilized polymer-additive dry blends/compounds **“MEGACOM”** and stabilizer-additive premixes **“MEGAPACK.”**



Synergy Polyadditives innovate spectrum of polymer processing additives for diverse applications:

- CPVC and uPVC: Pipes & pipe-fittings.
- uPVC Window & technical profiles, foam profiles, sheets and boards.
- Electrical Wire and cables.
- Footwears, imitated leather, calendered sheets.
- Colour, filler and additive masterbatches.
- Polyolefins, Elastomers, Engineering and styrenic compounds.
- Polymer Composites imitating wood, glass and stone.

CPVC PIPES AND PIPE FITTINGS

The thermal stabilizers used in the processing of CPVC include calcium-zinc, organo-tin and calcium-organics based stabilizers. These stabilizers are essential for protecting the polymer from thermal degradation during high temperature extrusion, molding or calendaring operations while meeting the environmental and regulatory requirements.

Some other speciality acid scavengers are also some-times included in the stabilizer team to neutralize the HCl generated during thermal degradation, enhancing the stability and color retention of the end product. Lubricants like polyethylene wax, fatty acid esters and acrylic processing aid are also made use to enhance the melt flow and surface aesthetics of the end products.

OUR PRODUCT RANGE

PERFORMANCE STABILIZERS:

MEGACOMS: CPP-1432, CPP-1440, CPF-1450, CPF-8699

MEGAPACKS: T-8677, T-8688

LUBRICANT:

SYNOFLOWS: PE-620, PE-670, OPE-3029, OHPE-3016

SYNOLUBS: SN-925, SN-945

SPECIALITY ADDITIVES:

SYNOAIDS: OPA-400, OPA-401

SYNOPACTS: OIM-200, OIM-500, OIM-550

SALIENT FEATURES

- Easy Compounding
- Lower Inventory
- Reduced Additives
- Fusion Control
- Melt Strength
- Color Retention
- Long Term Durability
- Corrosion Resistance
- Fire Resistance

APPLICATION AREAS

- Residential plumbing for hot & cold-water distribution including Geysers and kitchen sinks.
- Commercial and industrial plumbing for potable water and chemicals.
- Fire sprinkler systems due to their flame-retardant properties.
- Solar water heaters for their heat resistance.
- Agricultural irrigation systems including sprinkler and drip irrigation due to their resistance to chemicals & blockage.
- Outdoor applications e.g AC covers and cable covers exposed to high temperature or sunlight.



PRODUCT FORMS



Micro Beads



Non-dusting Powder

ADDITIVES FOR uPVC PROCESSING

uPVC PIPES AND PIPE FITTINGS

MEGAPACK
SYNOPACK

Synergy Polyadditives pioneers in the production of befitting grades of lead-free systems: Calcium-zinc, Calcium-Organic based and organo-tin based stabilizers, lubricating systems and other essential performance additives for production of desired quality products conforming to relevant performance standards and safety regulations.

PVC pipes and pipe fittings are essential components of modern plumbing and piping systems in residential and industrial context.

OUR PRODUCT RANGE

PERFORMANCE STABILIZERS:

SYNOPACKS: T-3054, T-3055, T-3056, T-3057, T-3058
SN-7603, SN-7604, SN-7607, SN-7609
MEGAPACK: T-3699

LUBRICANTS:

SYNOFLOWS: PE-300, PE-620, PE-670, OHPE-3016, OPE-3029
SYNOLUBS: SN-20, SN-23, SN-25

SPECIALITY ADDITIVES:

SYNOAID: OPA-402
SYNOFACT: OIM-502, FM-55

SALIENT FEATURES

- ✓ Good Colour Stability
- ✓ Good Processing Efficiency
- ✓ Good Dimensional Stability
- ✓ Excellent Static & Dynamic Thermal Stability
- ✓ Appealing Aesthetics
- ✓ Excellent Fixability with Solvent Cements Ensuring Leak Resistant Joints
- ✓ Mechanical Properties & Chemical Resistance
- ✓ Non-corrosiveness
- ✓ Light Weight in Comparison to Metal Counterparts

APPLICATION AREAS

- Residential plumbing for potable water and waste systems.
- Industrial applications involving liquid and gaseous transport.
- Irrigation networks.
- Underground drainage and sewer systems.
- Electrical conduits.
- Ventilation system.

PRODUCT FORMS



Non-dusting
Powder



Flakes

PVC WINDOW & TECHNICAL PROFILES

Synergy Polyadditives have installed state-of-the-art production lines for manufacture of a complete range of lead free: Calcium-Zinc stabilizer/lubricants one packs.

PVC Window and Technical profiles are rigid PVC structures used to build window and door frames known for durability, weather resistance and low maintenance cost. Additives like thermal stabilizers, processing aids, impact modifiers and U.V. protection agents are melt-blended with PVC to achieve necessary processability, weatherability and mechanical properties.



OUR PRODUCT RANGE

PERFORMANCE STABILIZERS:

SYNOPACKS: NT-5004, NT-5007, NT-5062, NT-5066

LUBRICANTS:

SYNOLUBS: SN-6050, SN-60, FP-65

SYNOFLOW: FT-95

SPECIALITY ADDITIVES:

SYNOAIDS: OPA-400, OPA-401

SYNOFACTS: OIM-200, OIM-501

SALIENT FEATURES

- ✓ Energy-saving, low-cost alternative to wood, steel and aluminum, with better efficiency and lower maintenance
- ✓ Excellent Weather & UV Resistance
- ✓ Good Mechanical properties and property retention
- ✓ Appealing Aesthetics
- ✓ Good color properties

APPLICATION AREAS

- | | |
|-----------------|----------------------------------|
| ■ Windows. | ■ Fencing System in Construction |
| ■ Doors. | ■ Automotive Sector. |
| ■ Roofing. | ■ Aerospace. |
| ■ Wall Cladding | ■ Medical Automation Devices. |

PRODUCT FORMS



ADDITIVES FOR FOAMED PROFILES

FLOORING, WPC FOAM SHEETS & BOARDS

Stabilizers of choice used for the production of PVC flooring, WPC foam sheets & boards constitute mixed metal Hybrid System, Calcium-Zinc, Calcium-organic and organo-tin based stabilizers.

Synergy Polyadditives have expertise and state-of-the-art infrastructure for designing, production and evaluation of the end products for their suitability for the intended application.



OUR PRODUCT RANGE

PERFORMANCE STABILIZERS:

SYNO PACK: FFS-621, FP-632, CS-673, CEF-684, CEF-691, SN-5005

LUBRICANTS:

SYNO FLOWS: FT-95, PE-300
SYNO LUBS: SN-6030, SN-6040, SN-6050

SPECIALITY ADDITIVES:

SYNO AID: OPA-403
SYNO PACT: OIM-503

SALIENT FEATURES

- ✓ Suitable for a wide range of colors and designs that mimic wood, stone or other attractive textures
- ✓ Chemical, stain and scratch resistant
- ✓ Highly durable
- ✓ Highly resistant to moisture



APPLICATION AREAS

- **WPC** (Wood Plastic Composites),
- **SPC** (Stone Plastic Composites),
- **LVT** (Luxury Vinyl Tiles) in residential and commercial spaces.

PRODUCT FORMS

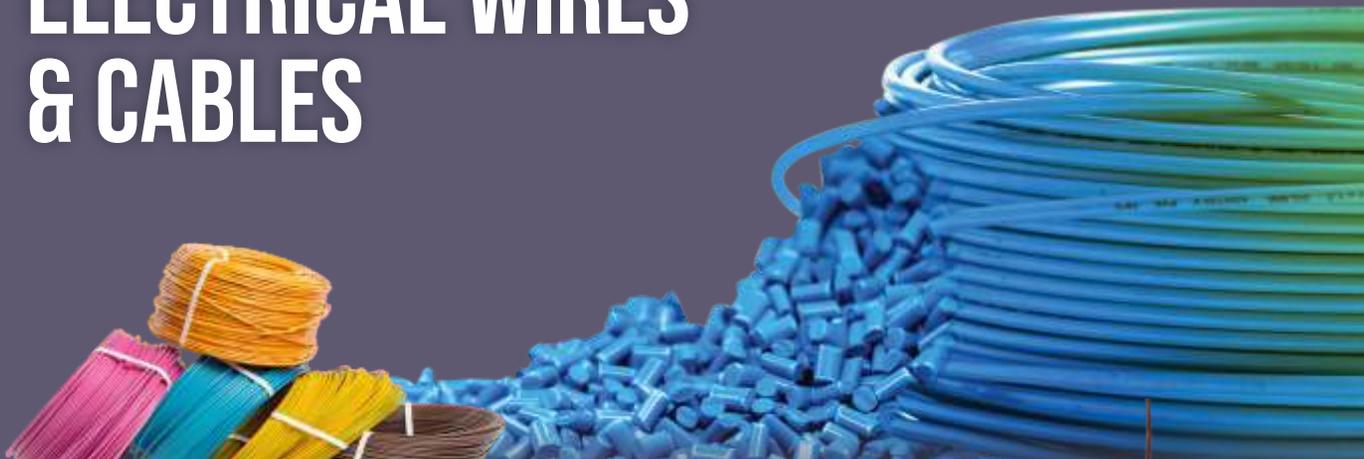


Non-dusting Powder



Flakes

ELECTRICAL WIRES & CABLES



Synergy Polyadditives Specially designed range of wire & cable stabilizer one packs-hybrids and calcium-zinc safety meet environmental standards & provide good processability, surface aesthetics and also impart good mechanical and electrical insulation properties to the end product.

Synergy Polyadditives nontoxic range of Calcium-Zinc stabilizer systems is suitable for service temperature range upto 135 deg.C offering superior static & dynamic heat stability, low moisture absorption, high volume resistivity and UV resistance.



OUR PRODUCT RANGE

PERFORMANCE STABILIZERS:

SYNOPACKS: CZ-1815, CZ-1835, CZ-1853, CZ-1856, CZ-1890, CZ-1892

SPECIALITY ADDITIVES:

SYNOGUARD: FRATH-200, FREG-300, FR M-550

LUBRICANTS:

SYNOFLOW: PE-620

SYNOLUBS: SN-10C, SN-34C, SN-728

SALIENT FEATURES

- ✓ Excellent thermal stability and electrical properties
- ✓ Good color stability
- ✓ Long-term heat & light resistance
- ✓ Good ageing resistance
- ✓ Low water absorption
- ✓ Excellent compatibility with co-additives

APPLICATION AREAS

- Household cables.
- Automotive cables.
- Underground cables.
- Power cables insulation.

PRODUCT FORMS



Non-dusting Powder



Flakes

SHOES, TOYS, CALENDERED SHEETS, HOSES AND TUBES

Processing additives are included in the polymer formulations to improve the manufacturing process & surface quality of the end products such as flexible calendered sheets & film and molding articles. They do not only help to retain the basic properties of the polymer and make the process easier and faster but also impart the end product enhanced resistance against deteriorating effects of processing heat and environmental agencies.



OUR PRODUCT RANGE

PERFORMANCE STABILIZERS:

SYNOSTABS: BZ-290, KZ-220, FW BCZ-516, FW BCZ-601, CZ-115, SN-470P, SN-471

SPECIALITY ADDITIVES:

VISCOSITY DEPRESSANT:
SYNOL - 40

LUBRICANTS:

SYNOLUBS: SN-12, SN-1605, SN-6050



SALIENT FEATURES

- ✓ Good thermal stability
- ✓ Better processing
- ✓ Good organoleptic properties
- ✓ Extended service life
- ✓ Customization of parameters

APPLICATION AREAS

- Car, mats.
- Flexible sheets.
- Cling films, footwears.
- Toys.
- Medical Products.

PRODUCT FORMS



ADDITIVES FOR FLEXIBLE PVC PLASTISOLS

ARTIFICIAL LEATHER, LID SEAL & BOTTLE CAPS, SPORTS GOODS, TOOL HANDLES TOY, PVC GLOVES

SYNERGY Polyadditives plays a leading role in developing Plastisol additive systems for processing.

SYNERGY Polyadditives R&D have developed stabilizer, one-pack additives for PVC Plastisols. These stabilizer one packs constitute combinations of various metal complexes such as Barium/Zinc, Barium/Calcium/Zinc and Potassium-Zinc fortified with high efficiency chelators and antioxidants to provide requisite thermal stability, easy processability and environmental protection, ensuring reliable, high quality end product.



Synergy Polyadditives provides reliable, eco-friendly stabilizer systems that align with today's performance & sustainability needs.

OUR PRODUCT RANGE

PERFORMANCE STABILIZERS:

SYNOSTABS: BZ-290, KZ-220, MMC-529, MMC-590, MMC-936, MMC-962, SN-159L, SN-167L, SN-175L, SN-470P, SN-471, SN-4612.

SALIENT FEATURES

- ✓ Pourable at room temperature
- ✓ Highly compatible & dispersible with PVC
- ✓ Impart good adhesion properties
- ✓ Customized products & solutions provided on request
- ✓ Heat curable/ articles into flexible



APPLICATION AREAS

- Coatings: imitated upholstery, textiles printing.
- Screen printing inks.
- Dipping: gloves, toys, tool handle & hand grips.
- Slush Molding: Car dash boards, steering wheel covers gear shift boots.
- Packaging: Food packaging eg Lid seals, Aerated drinks crown cap seals.

PRODUCT FORMS



Liquid



paste

METALLIC SOAPS

Synergy Polyadditives have designed and manufacture a complete range of metallic soaps such as - Calcium, Zinc, Magnesium, Sodium and Aluminum Stearates.

They find a multitude of applications in polymer processing & other diverse fields.



SYNOSOAPS

Product/Grade	Physical Form	Metal Content (% by Mass)	Applications and Functions
Calcium Stearate SN-187 SN-440	Non Dusting Powder Powder/Granules	7.3 ± 0.5 as Ca	PVC processing: Used as a lubricant and mild heat stabilizer. Polyolefins (PE, PP): Acid scavenger, lubricant, heat stabilizer & release agent. Rubber industry: Perform as an internal lubricant and release agents. Paints & coatings: Work as a flattening and waterproofing additive.
Zinc Stearate SN-182 SN-240	Non Dusting Powder Powder/Granules	10.3 ± 0.5 as Zn	Plastics (PVC, polyethylene & polypropylene): Used as a lubricant and mold-release agents. Rubber: Functions as an activator and help to improve processing. Paints and coating: Perform as a flattening agent and helps dispersion.
Magnesium Stearate SN-640	Non Dusting Powder	4 ± 0.5 as Mg	PVC and engineering polymers processing (polycarbonates, polyamides, and PET-PBT): Work as mould release agents. Stabilization- functions as mould release. Pharmaceuticals: Functions as lubricant and widely used in the formation of tablets. Cosmetics: used as an anti-caking agents and emulsifier.
Sodium Stearate SN-740	Non Dusting Powder	7 ± 0.5 as Na	Plastics: Perform as a lubricant additives and anti-static agent. Paints & inks: act as stabilizer and dispersing agents. Rubber industry: Functions as an emulsifier and processing aid.
Aluminum Stearate SN-840	Non Dusting Powder	3.1– 5.3 as Al	Plastics and rubber: Used as a release agent. Greases and lubricants: work as a gelling and thickening agent. Paints and coatings: used as a thickener, stabilizer and Thixotropic agent in paint formulations.

Synergy Polyadditives Provides a complete range of metallic soaps manufactured through State-of-the-Art proprietary S.F technique.

PRODUCT FORMS



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 molding & enhance surface aesthetics & productivity.

OUR PRODUCT RANGE

POLYETHYLENE WAXES:

SYNOFLOWS: PE-110, PE-200, PE-300, PE-620, PE-630, PE-670, PE-3006, PE-3017, PE-7000.

OXIDIZED POLYETHYLENE WAXES:

SYNOFLOWS: OPE-3011, OHPE-3016, OPE-3029, OHPE-4016.

AMIDE & ESTER WAXES:

SYNOLUBS: SN-32, 60, 70, 71, 72, 74, 401, 402, 403, 605, 728, 748, FP-65, NM, SS.

SPECIALITY ADDITIVES:

SYNOLUBS: SN-11, 12, 15, 16,18, 20, 21, 025, 034 C, 052, 53, 91, 101, 129, 151, 212, 925, 945, 1605, 10C.



SALIENT FEATURES

POLYETHYLENE & OXIDIZED POLYETHYLENE WAXES

- External Lubricants
- Release Agents
- Wetting & Dispersing agents
- Surface enhancers

COMPLEX ESTERS

- Impart External Multifunctional lubrication during rigid vinyl processing
- Excellent release effect
- Promote non-stickiness and flow properties
- Minimize thermal degradation
- Enhance filler dispersion
- Enhance filler dispersion
- Eliminate flow lines & flow marks
- Improve optical clarity

AMIDE WAXES

- Slip agents
- Release agents
- Anti-blocking agents
- Dispersion Aids
- Surface enhancer

SPECIAL OLEO-CHEMICAL PROPRIETARY ADDITIVES

- Dispersion aids
- Surface modifiers
- Anti-blocking agents

ESTER WAXES

- Internal & external lubricants
- Dispersion Aids
- Processing Modifiers
- Aesthetics enhancer
- High speed extrusion promoter

APPLICATION AREAS

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

PRODUCT FORMS



Non-Dusting Powder



Prills



Flakes



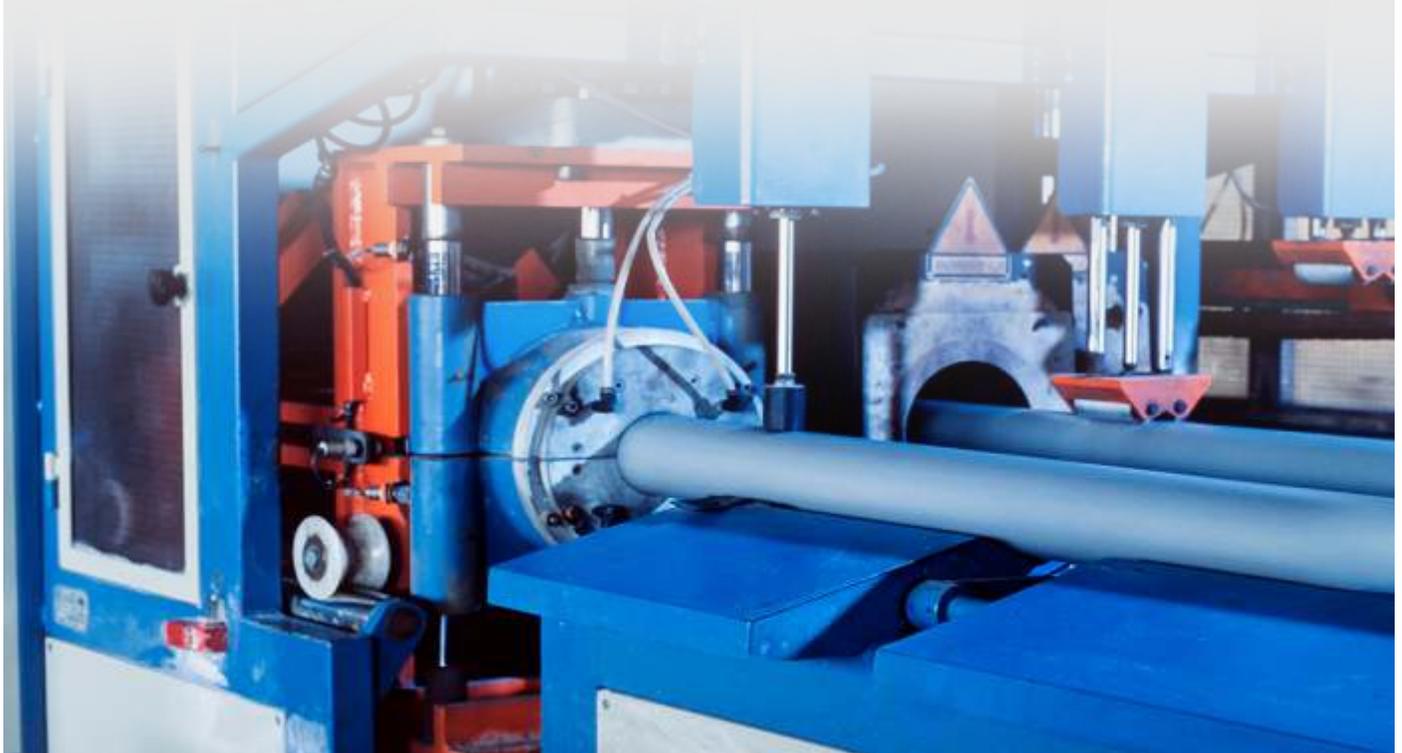
Granules



Microbeads

OLIGOMERIC PROCESSING AIDS

Synergy Polyadditives laboratories have successfully engineered & launched a conceptual range of processing aids for rigid vinyl polymers (e.g. PVC & CPVC). The said range of additives, designated as oligomeric processing aids (OPA) successfully substitute the traditional Acrylic processing aids without being polymeric themselves.



SALIENT FEATURES

- ✓ Enhance melt flow & melt strength
- ✓ Eliminate surface defects
- ✓ Lower downtime & rejects
- ✓ Enhance mechanical properties
- ✓ Control cell structure & enhance surface finish

ADDITIVES FOR PIPES, PROFILE & PANEL SHEET

SYNOAIDS: OPA- 400 Series

APPLICATION AREAS

- PVC and CPVC Pipes & Pipe-Fittings.
- Window, Technical and Foam profiles.
- Sheets and Panels.

PRODUCT FORMS



Non-dusting
Powder



Microbead

OLIGOMERIC IMPACT MODIFIERS

Synergy Polyadditives have developed and come out with range of non-conventional additive systems designated as oligomeric impact modifiers (OIM) to function as effective impact modifiers for vinyl polymer processing. Oligomeric impact modifiers impart vinyl polymers, the requisite impact strength and toughness properties comparable to those obtained with conventional ACR or MBS modifiers.

ADDITIVES FOR PIPE & PROFILE

SYNOFACTS : OIM-200, OIM-500, FM-55

SALIENT FEATURES

- ✓ Enhance Impact Strength and Toughness
- ✓ Enhance Low-Temperature Performance
- ✓ Support Thermal Stability
- ✓ Maintain Processability
- ✓ Improve Durability and Surface Quality



APPLICATION AREAS

- PVC and CPVC Pipes & Pipe fittings.
- uPVC Window Profiles and Sidings.
- Technical Profiles and Sheets.
- Foamed Profile wood composites.



PRODUCT FORMS



Non-dusting
Powder



Microbead

ADDITIVE SOLUTIONS FOR RECYCLED PLASTICS

Synergy Polyadditives have developed a number of polymer processing additives for recycling of plastic wastes from homes & industry. These additives help to restabilize the degraded polymers, restore lost properties and improve processing & performance of the waste plastics so that they can be re-used in value added applications.

SYNO CARE additive systems are specially designed for recycling of different plastics such as Polyvinyls, Polyolefins, Elastomers and Engineering polymers.

Synergy polymer processing additives includes

Stabilizers: Hybrid & mixed metals

Lubricants: Fatty acid esters, PE & Oxidized PE waxes

Acid Scavengers: Calcium stearate & Mg-Al complexes

Flow modifiers: Fatty acid derivatives & oligomeric compounds

APPLICATION AREA

- **Polyolefins (PE, PP) wastes** Packaging films, carry bags, crates, pallets, automotive components, pipes, and outdoor furniture.
- **PVC Wastes** Pipes, fittings, profiles, flooring, cable insulation, footwear compounds, and flexible sheets.
- **PET Wastes** Fibers, straps, thermoformed sheets, bottles for non food applications.
- **Mixed Plastic Waste Streams** Injection molded parts, boards, sheets, and construction products.

OUR PRODUCT RANGE

SYNO CARE: RP PO - 440, 640

SYNO CARE : RP V - 825, 845, 865, 885

SYNO CARE : RP EN - 53, 781

SYNO CARE : RPEL - 300

SYNO CARE : RP FR - 5501

SALIENT FEATURES

- ✓ Economical Solutions
- ✓ Safe on processing machines
- ✓ Restore mechanical properties
- ✓ Improve stability
- ✓ Enhance surface aesthetics



SUSTAINABLE ADDITIVES SOLUTIONS



Adding life to polymers.....



SYNERGY POLYADDITIVES



Artificial Leather



CPVC & uPVC



Vinyl Glove



Coated Fabric



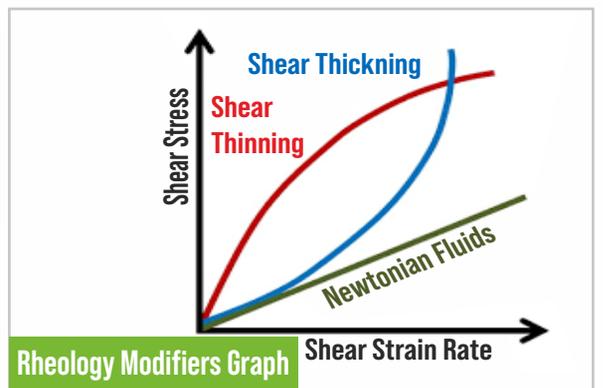
Vinyl Wallcovering



Toys



Vinyl Flooring



Rheology Modifiers Graph

EXPLORING OUR GLOBAL REACH TO EXPAND



ECO-FRIENDLY

REDUCE
CO₂ EMISSION



USE RENEWABLE
RESOURCES

Sustainable Additives



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