

EXPLORE AND EXPAND



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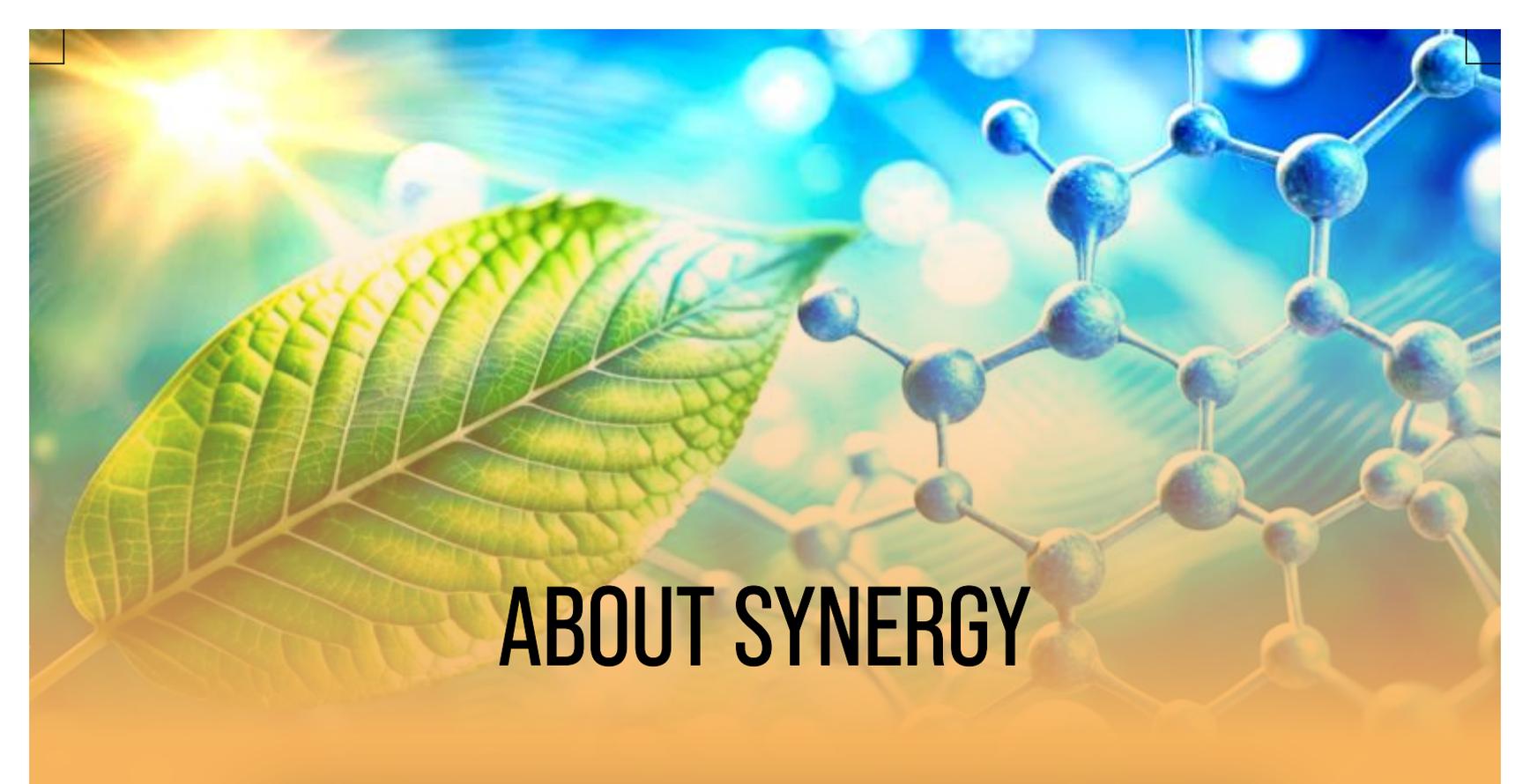
CPVC Pipes & Pipe Fittings

Sustainable Solutions for **CPVC** Processing



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ABOUT SYNERGY

Synergy PolyAdditives is a globally recognized, privately owned company specializing in manufacturing of high-performance additive systems for the polymer industry. Our additives 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.

Synergy PolyAdditives plays a leading role in providing the most appropriate additive solutions for the processing of CPVC pipes and pipe fittings. The thermal stabilizers employed for the processing of CPVC constitute Organo-tin based Stabilizers fortified with high performance lubricants, process modifiers, property enhancers, opacifiers and UV Stabilisers.

The latest inclusions in our product range for manufacture of CPVC pipes & pipe-fittings are **"MEGACOM"**, "Ready to Process" organo-tin stabilized polymer-additives dry blends and **"MEGAPACK"** optimised additive one pack constituting state-of-the-art heat stabilizers, lubricants, process & impact modifiers, antioxidants and U.V protecting agents.

Where as MEGACOMs are meant for direct conversion to the end products, MEGAPACKs need to be compounded with the CPVC resin at specified use level.

Our approach is rooted in collaboration. We work intimately with our clients to deliver precise, customized additives solution while remaining sincerely committed to sustainable, eco-conscious production practices. Every product we create reflects our dedication to quality, cost-effectiveness and environmental responsibility.

PRODUCT & SERVICES

CPVC PROCESSING SOLUTIONS



Synergy Polyadditives is one of the leading high-performance polymer additive solution provider for CPVC processing. **Synergy** has emerged with a number of highly efficient additive systems being marketed under the trade names MEGACOM & MEGAPACK.

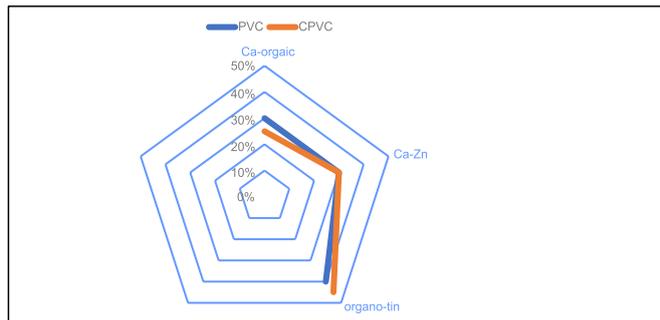
These stabilizers are chosen for their ability to maintain CPVC's heat stability at the elevated processing temperature and to meet environmental and regulatory requirements. Some other speciality acid-scavengers are also included in the stabilizer team to neutralize the hydrochloric acid generated during thermal degradation.

PRODUCT RANGE :

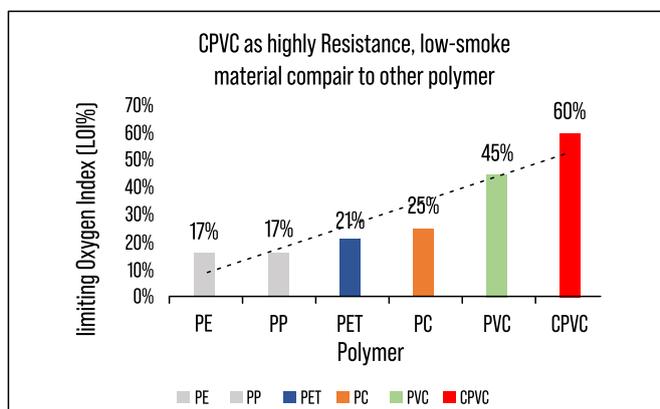
- **MEGACOMS** : CPP-1432, CPP-1440, CPF-1450, CPF-8699
- **MEGAPACKS** : T-8677, T-8688

WAXES & LUBRICANTS :

- **Polyethylene wax** : **SYNOFLOWS** : PE-620, PE-630, PE-670
- **Oxidised polyethylene wax** : **SYNOFLOWS** : OPE-3029
- **High density oxidised polyethylene wax** : **SYNOFLOWS** : OHPE-3016
- **LUB 1 PACKS** : **LUBPACKS** : SN-925, SN-945

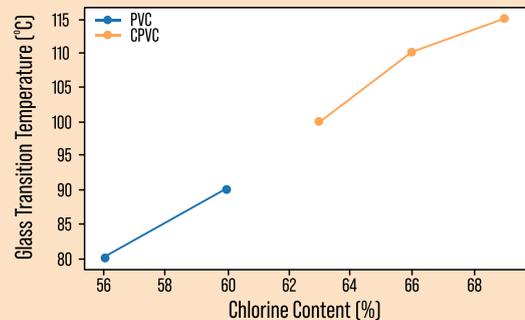


Processing performance of lubricant additives in PVC and CPVC considering stabilizers



SALIENT FEATURES :

- Easy Dispersibility in the Polymer Resin
- Simplified Inventory Management
- Reduced Touch Points and Potential for Contamination
- Enhanced Dosing Accuracy
- Consistent Product Quality and Performance



Improvement in heat resistance from PVC to CPVC

APPLICATION AREAS :

Manufacture piping system for :

- Hot & cold water and fluid transport
- HVAC systems
- Fire sprinkler
- Chemical plants
- Dusting for fume handling

PRODUCT FORMS :



Non-Dusting Powder



Micro Beads

CPVC PIPES AND PIPES FITTINGS

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GRADE	PHYSICAL FORM	TYPE	APPLICATIONS
MEGACOM CPP-1432	Cream Non-dusting Powder	Organo-tin based dry blend	CPVC pipes
MEGACOM CPP-1440	Cream Non-dusting Powder	Organo-tin based dry blend	CPVC fire sprinkler pipes
MEGACOM CPF-1450	Cream Micro beads	Organo-tin based dry blend	Injection moulded CPVC fittings, ball valves, gate valves, fire sprinkler fittings
MEGACOM CPF-8699	Ivory white Non-dusting Powder	Organo-tin based dry blend	CPVC fittings e.g. elbows, tees, couplers, reducers, valves and adaptors for hot and cold water distribution, fire-sprinkler system components

STABILIZERS - LUBRICANTS ONE PACK

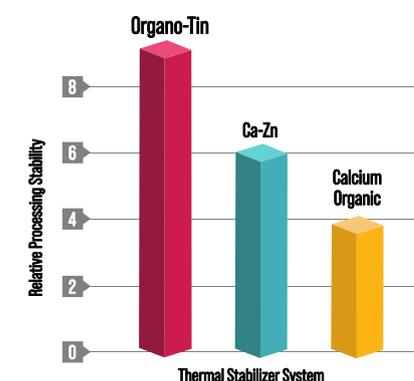
MEGAPACK

GRADE	PHYSICAL FORM	TYPE	APPLICATIONS
MEGAPACK T-8677	Ivory white Non-dusting Powder	Organo-tin based additives one packs blends of stabilizer, pigment, lubricants and processing modifiers	CPVC pipes extrusion eg. Hot and cold water pipes, Fire sprinkler pipes, Chemical and industrial piping, High-temperature pressure pipes, HVAC hot water lines
MEGAPACK T-8688	Ivory white Non-dusting Powder	Organo-tin based additives one packs blends of stabilizer, pigment, lubricants and processing modifiers	CPVC fire fighting pipes extrusion e.g., sprinkler pipe systems, standpipe and riser systems, water-based fire suppression lines, pump room and hydrant connections.

STABILIZERS - LUBRICANTS ONE PACK

SYNOSTAB

GRADE	PHYSICAL FORM	TYPE	APPLICATIONS
SYNOSTAB CP-432	Power	Mixed Metals Hybrids	CPVC pipes for Hot and Cold water plumbing, industrial chemical piping, fire sprinklers.
SYNOSTAB CP-450	Power	Mixed Metals Hybrids	CPVC fittings ensure heat stability, smooth processing, strength, durability.



Thermal stabilizer processing performance in CPVC pipes & fittings

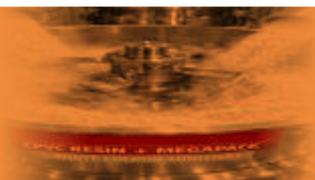
GUIDE-FORMULATIONS



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PRODUCT CODE	CPVC COMPOUNDS FOR HOT AND COLD WATER PRESSURE PIPES, CHEMICAL & CORROSIVE FLUID HANDLING PIPES	CPVC COMPOUNDS FOR SPRINKLER PIPES	CPVC COMPOUND FOR BALL AND GATE VALVES	CPVC COMPOUND FOR HOT & COLD WATER DISTRIBUTION FITTING, FIRE-SPRINKLER SYSTEM COMPONENTS
MEGACOM CPP-1432	Ready to process material	—	—	—
MEGACOM CPP-1440	—	Ready to process material	—	—
MEGACOM CPF-1450	—	—	Ready to process material	—
MEGACOM CPF-8699	—	—	—	Ready to process material

GUIDE-FORMULATIONS



MEGAPACK

PRODUCT CODE	CPVC PLUMBING PIPES	CPVC FIRE FIGHTING PIPES EXTRUSION
CPVC Resin	100 phr	100 phr
MEGAPACK T-8677	16-17 phr	-
MEGAPACK T-8688	-	16-17 phr
NOTE: *TiO ₂ , SYNOFLOW, Processing aid, impact modifiers are already included in MEGAPACK. *Color, filler and LUBPACK may be added as per requirement.		

LUBRICANTS AND WAXES



SYNOFLOW

PRODUCT	CHEMICAL DESCRIPTION	PHYSICAL FORM	MELTING RANGE (°C)	ACID VALUES (MG KOH/G)	DOSES (%)	APPLICATION / FUNCTION
SYNOFLOW PE-620	Polyethylene homopolymer wax	Prills	114 ± 4	-	0.4-0.8	External lubricant for CPVC pipe fittings
SYNOFLOW PE-630	Polyethylene homopolymer wax	Flakes	120-122	-	0.6-0.8	CPVC Recycle compounds
SYNOFLOW PE-670	Polyethylene wax	Beads	105 ± 5	-	0.8-1.0	External lubricant for CPVC pipe and pipe fittings.
SYNOFLOW OPE-3029	Low density polyethylene Oxidised wax	Powder	100-103	14.0-16.0	0.8-1.0	External lubricant / Mould release agent for CPVC pipe 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 pipe and pipe fittings.
LUBPACK SN-925	Synergize co-stabilizing with tin One pack lubricant system	Non-Dusting Powder	105-110	1.0-2.0	0.8-1.2	Internal /external lubricant for CPVC Pipes.
LUBPACK SN-945	Synergize co-stabilizing with tin One pack lubricant system	Non-Dusting Powder	110-115	1.0-2.0	1.0-1.5	Internal /external lubricant for CPVC pipe fittings.

EXPLORING OUR GLOBAL REACH TO EXPAND



ECO-FRIENDLY

**REDUCE
CO₂ EMISSION**



**USE RENEWABLE
RESOURCES**

Sustainable Additives



Synergy Poly Additives Pvt. Ltd.

A-1/8 Paschim Vihar New Delhi 110063 India

+91-11-4273 0345

info@synergyadditives.com

www.synergyadditives.com