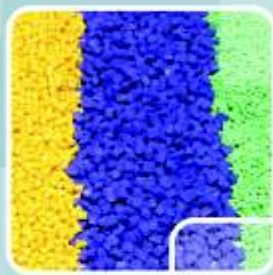




MOHINI ORGANICS PVT. LTD.

Manufacturers of Specialty Chemicals



POLYMER ADDITIVES

Mohini Organics manufactures Surfactants, Emulsifiers, Esters and Waxes for wide range of applications including polymers.

Plastic polymers have chemical reaction properties similar to those of small molecules though the polymers are larger in size. This means that a range of different factors including thermal conditions, stress cracking or diffusion of chemical additives can alter the molecular structure and consequently the fundamental properties of most plastic materials. Some changes can lead to plastic degradation. Hence plastic additives are introduced into a compound to produce a specific result. Different kind of additives display different vulnerabilities and strength but each of them can influence the effectiveness of polymer processing.

Polymers that exhibit difficult formability may benefit from lubricants or processing aids that can help keep the material from sticking to metal surfaces and cover the amount of energy needed to fabricate it. PVC material that is intended for moulding or extrusion is often treated with lubricants, processing aids, impact additives, stabilisers, etc. at the same time.

We offer polymer additives mainly for the application in PVC/CPVC processing. Although some products find application in various other polymers such as PE, PP, Polyolefins, Nylons, etc.

Our products are lubricants, antiblock additives, antistatics, dispersion aids, impact modifiers, antifogs and costabilisers for CPVC.

Lubricants

Lubricants are the essential components in the processing of PVC. These products facilitate the simplification of manufacturing by decreasing the friction, reducing energy consumption and PVC melting pressure in the machine. They help to disperse the fillers and pigments used. Lubricants are divided into Internal and External. The Internal lubricants reduce the frictional forces between the PVC molecular chains and lowers the melt viscosity. This improves flow and postpones gelation. The External lubricants help to reduce the adhesion between PVC and metal surface of the mould. These products improve gloss and helps in the release properties. The strength of the product depends upon the optimum dosage of the lubricants.



Antiblock Additives

These are the additives which block the adhesion between the two layers of film. This is the problem mostly associated with polyethylene and polypropylene films.

These additives help reduce the sticking of two adjacent layers of film. They are also used in other polymers.

Antistatics Additives

Polymers tend to build up the static charges. The Antistatic additives help to reduce these charges by migrating to the surface of the product giving required effect. These additives also help to prevent the dust attraction on the finished products and gives the aesthetic look to the final products, when placed on the shelves of the stores. Many a times, during industrial application of packaging or filling of materials, the electric charge develops. This may initiate fire or spark and lead to defect in the products.



Dispersion Aids

Dispersion aids help the fillers and pigments added in the polymer compound to disperse uniformly in the polymers. They reduce the agglomeration of the pigments which improve the development of color in the final polymer products uniformly. They reduce the clogging of the pigments / fillers, which may lead to chocking of the nozzles. The dispersion aids also reduce the bleeding of pigments and high loading of the fillers and pigments in the master batches.

Impact Modifiers

Impact modifiers are the key component of the polymer additives. They increase the flexibility and the impact strength of the finish products. PVC being of rigid nature, need the impact additives to improve the flexibility and reduce the risk of breakage of the products.

Antifog Additives

Antifog additives reduce the foginess generated on the clear foodwrap films due to the moisture generated in the fresh fruit & vegetable packings. Antifog additives improve the light transmission and increases the crop growth in the green houses.



Co-stabilisers for CPVC

Co-stabilisers help to stabilise the extra gas generation due to high chlorine content in addition to Primary stabilisers.



Multifunctional Processing Aid

This range of product is used specially for filled thermoplastic compounds to impart better mechanical properties. It improves flow and mould release and enhances surface finish.

Lubricants

Product Name	Chemical base	Form*	Melting Range (°C)	Application
Moxilub [®] - 1001	Oleochemical	L	----	Internal lubricant, wetting and dispersing aid for Titanium and other pigments
Moxilub [®] - 1201	Oleochemical	S	56 - 60°C	Lubricant for PVC and other applications
Moxilub [®] - 1601	Oleochemical	L	-	Internal lubricant compatible for rigid and soft PVC. Used in PVC films, sheets and calendaring.
Moxilub [®] - 1801	Oleochemical	S	52 - 56 °C	Good lubricant for rigid PVC profiles, extrusion and injection moulding.
Moxilub [®] - 1816	Oleochemical	S	48 - 52 °C	Internal lubricant for rigid PVC, PVC Foam sheets.
Moxilub [®] - 2101	Oleochemical	S	68 - 78 °C	External lubricant for rigid PVC
Moxilub [®] - 2630	Oleochemical & blends	S	Above 90 °C	External lubricant with co-stabilisation of the gases released.
Moxilub [®] - 512	Oleochemical	S	52 - 56 °C	Lubricant for rigid PVC
Moxilub [®] - 518	Oleochemical	S	55 - 60 °C	External lubricant for rigid calendar films and PVC fittings and sheets
Moxilub [®] - 5301	Oleochemical	S	52 - 54 °C	Internal lubricant for extrusions and injection moulding
Moxilub [®] - 7001	Complex Oleochemical	S	54 - 58 °C	External lubricant for PVC calendared films and PVC rigid fittings
Moxilub [®] - 7401	Complex Oleochemical	S	54 - 58 °C	External lubricant for PVC calendared with
Moxilub [®] - 7801	Complex Oleochemical	S	100 - 110 °C	Combination external lubricant for PVC rigid profile
Moneplast [®] - HM	Oleochemical	S	80 - 88°C	Lubricant for rigid PVC pipes/fittings
Moneplast [®] - OP	Oleochemical	S	83 - 88°C	Lubricant for rigid PVC pipes/fittings
Moxilub [®] - MT25	Oleochemical	S	100 - 110°C	One pack high performance lubricant for PVC pipes
Moxilub [®] - 8316	Polymer	S	130 - 140 °C	High performance external lubricant for high temperature processing application like CPVC processing.
Moxilub [®] - 8629	Polymer	S	95 - 105°C	High performance external lubricant with high dose in high performance processing of CPVC pipes and fittings
Moxilub [®] - 8617	Polymer	S	90 - 110°C	External lubricant for processing rigid PVC / CPVC application
Moxilub [®] - PE01	Polymer	S	95 - 108°C	Polyethylene Wax for the application of external lubricant for mould release.

* L - Liquid, S - Solid

Antiblock Additives

Product Name	Chemical base	Form*	Melting Range (°C)	Application
Monemide [®] - EBS	Oleochemical	S	135 - 145°C	Antiblock for PE/PVC polymers. Improves flow and also effects the mould release at high temperatures
Monemide [®] - E110	Oleochemical	S	110 - 125°C	Polyamide wax with good antiblock and release property

Antistatic Additives

Product Name	Chemical base	Form*	Melting Range (°C)	Application
Moxilub [®] - AD12	N ₂ containing Oleochemical	L	----	Antistatic agent for PE based application
Moxilub [®] - G95	N ₂ free Oleochemical	S	55 - 65°C	Efficient antistatic for Polyolefins, Styrenics and PVC. Also acts as lubricants for EVA application.
Monastat [®] - 163	N ₂ containing Oleochemical	L	----	Effective antistatic for films and injection moulding and sheet extrusion for PE/PP

Dispersion Aids

Product Name	Chemical base	Form*	Melting Range (°C)	Application
Moxilub [®] - T40	Oleochemical	L	----	Dispersion aid in soft PVC leather for carbon and other pigments
Moxilub [®] - 1001	Oleochemical	L/S	----	Wetting and Dispersing aid for various pigments and additives
Moxilub [®] - 418	Oleochemical	L	----	Wetting and Dispersing aid with plasticizing effect on polymers. Also acts as Antistatic.

Impact Modifier

Product Name	Chemical base	Form*	Melting Range (°C)	Application
Moxilub [®] - IP54	Polymer Oleochemical	S	----	Compatible with PVC and gives impact effect and reduces breakage
Moxilub [®] - IP99	Polymer Oleochemical	S	----	Compatible with Polymers like PVC, PE etc and gives effect on impact of product.

* L - Liquid, S - Solid

Antifog Additives

Product Name	Chemical base	Form*	Melting Range (°C)	Application
MO-Dfog -1003	Oleochemical	S	50 - 54°C	Effective Antifog additive in LDPE & PVC based agri films.
MO-Dfog -1010	Oleochemical	L/S	----	Used in combination with MO-Dfog-1016 for food wrap films
MO-Dfog -1016	Oleochemical	L	----	Effective Antifog additive in food wrap films in combination with MO-Dfog-1010.

Co-stabilisers for CPVC

Product Name	Chemical base	Form*	Melting Range (°C)	Application
Mostab [®] -STX1	Polymer Oleochemical	S	----	Excellent co-stabiliser supports Tin based formulations and generates stability to CVPVC processing at higher temperatures
Mostab [®] -X32	Polymer Oleochemical	S	----	Co-stabiliser with lubricant effect and supporting Tin based formulations for CPVC processing

Multifunctional Processing Aids

Product Name	Chemical base	Form*	Melting Range (°C)	Application
Mopaid - T1	Oleochemical	S	100 - 120°C	Processing aid for filled thermoplastic compounds

* L - Liquid, S - Solid



We Grow by Quality

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