

# AddKan Masterbatches

KIPL's range of additive masterbatches is targeted for various polyolefin applications. The active ingredients (additives) are very well dispersed in **AddKan** Masterbatches to ensure desired properties are achieved at optimum loading levels which translate to cost effective solutions for the processor.

Product Name	Product Code	Active Content	Important Characteristics	Main Applications
Slow Slip	AD/01/0007	10%	Lowers the friction between film layers and other surfaces. In order to effective the slip additive requires migrating to the surface & therefore requires a certain degree of incompatibility with the polymer.	High quality printed films in which printing is done off line after a few days.
Fast Slip	AD/01/0026	10%	Quickly blooms on the surface of the film to impart slip properties and reduce coefficient of friction (COF). Films made with fast slip additives should be printed immediately after they are made as later on slip additives may hinder with adhesion of lamination films or printing inks.	General purpose films in which printing is done online.
High Slip Shiner	AD/01/0030	12%	Lowers friction between film layers and improves gloss of films.	PE wrapping films to provide gloss as well as better opening/separation properties.
UV - Non Food Grade	AD/01/0002	20%	Absorbs ultraviolet rays of the sun and reduce deterioration of plastics resulting in UV protection.	PP/HDPE Raffia, PP/PE Pipes, HDPE/PP Nets, general purpose films, mulch films, PP fibres & filaments. Provides excellent light stability for thick sections & products having higher specific surface area.
PP UV	AD/02/0037	20%		PP based UV Masterbatch - used in PP Raffia/ Moulding applications requiring highest light stability in medium term.
UV - Economic Food Grade	AD/01/0017	20%		PP/HDPE Raffia, PP/PE Pipes, HDPE/PP Nets, general purpose PP/PE films, mulch films, PP fibres & filaments. It is the product of choice where indirect food contact approval is required.
UV - Medium Food Grade	AD/01/0044	20%	Absorbs ultraviolet rays of the sun and reduce deterioration of plastics resulting in Long Term UV protection.	PP/HDPE Raffia, PP/PE Pipes, HDPE/PP Nets, general purpose PP/PE films, mulch films, PP fibres & filaments. It is the product of choice where indirect food contact approval is required.
PP R - PP UV	AD/02/0028	10%	This is stable against hydrolysis (no loss in Oxidative Induction Time).	PP R Pipes. Can also be used in blow moulded and under-the-hood automotive parts. In combination with <b>AddKan</b> LTHA Masterbatch, the life span of PP R Pipes and plastic articles having these additives will be enhanced significantly.

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Antistatic Economic	AD/01/0009	10%	Migrates to surface of the plastic product. It functions usually in a molecular or multi-molecular layer and attracts water molecules from the atmosphere. The water lowers the surface resistivity and provides a conductive path which dissipates static charge to the atmosphere.	Used in films ( especially for electronic components ) to reduce static charge. Also used in plastic items ( such as consumer-white goods/moulded luggage ) to prevent accumulation of dust on the surface.
Antistatic Medium	AD/01/0042	10%	Combination of Antistatic additives for synergistic effect creates long lasting antistatic properties.	Used in mono and multilayer blown film for flexible packaging.
Nucleating	AD/01/0019	10%	Improves the clarity of PP by restructuring the molecules during processing stage. Also improves dimensional stability and impact properties.	Transparent containers of food, fruits and household items.
Hi Gloss	AD/01/0020	2%	Improves gloss & brightness of the plastic item (which may have been reduced due to the addition of reprocess material ). Also helps in increasing production output.	Any plastic application in which gloss and brightness of the product has to be improved.
Antioxidant	AD/01/0025	10%	Slows down or completely stops polymer degradation due to oxidation.	All extruded/moulded products processed at high temperatures and long resistance time, especially multilayer and mono layer films. Also recommended to use while reprocessing of polymers.
PPR - PP LTHA Antioxidant	AD/02/0024	10%	Improves Long Term Heat Ageing properties of polymers against oxidative influences and protects pipes, sheets and injection moulded PP parts against thermo-oxidative degradation.	In combination with AddKan PPR UV Masterbatch, the life span of PP-R Pipes and plastic articles having these additives will be enhanced significantly. Also used in automotive applications.
Polymer Processing Economic Aid	AD/01/0031	2%	Eliminates melt fracture, reduces die build up, improves film surface, eliminates shark skin effect, reduces gel formation and increases production output.	Blown films ( multilayer & monolayer ), cast films, extruded pipes, wires and cables, injection and blow moulded products.
Polymer Processing Medium Aid	AD/01/0043	1%		
Optical Brightener Economic	AD/01/0032	1%	Absorbs ultra violet light ( invisible light ) and re - emits most of the absorbed energy as visible blue light. This imparts extra brightness and whiteness and eliminates the inherent yellowish dull appearance.	All extruded/moulded plastic articles requiring extra bluish undertone, whiteness and brightness.
Optical Brightener Medium	AD/01/0033	1.50%		
Optical Brightener Superior	AD/01/0022	3%		

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Anti Microbial	AD/01/0039	5%	Protects the surface from staining and degradation caused by micro-organisms. Used to give a hygienic and health benefit by controlling/decreasing the amount of micro-organisms at the object surface.	Injection moulding, films, sheets, foams, fibres, tapes, coatings, PP R Pipes and many more.
Anti block cum Slip	AD/01/0035	28%	Minimize adhesion and thus lower the blocking force between layers. Once compounded into a plastic these additives create a micro-rough surface which reduces the adhesion between film layers and lowers the blocking tendency.	Blown and cast films ( films and bags ) to keep the sheets from sticking together for better open - ability and unwinding of film rolls.
Desiccant	AD/01/0034	75%	This chemically binds moisture during processing and allows higher levels of reprocess polymers and fillers to be used. Also reduces absorption of moisture during transportation.	All extrusion and moulding applications. Can be used during manufacture of reprocessed polymers. This can be used in multilayers and blow moulding applications as well.
Eco Desiccant	AD/01/0038	70%		
Flame Retardant	FR/01/0002	30%	Increases the safety of plastic products by reducing the flammability of the plastic and thereby delaying the spread of fire and toxic by products.	Used for all PE moulding and thick section extrusion applications.
	FR/02/0003	30%		Used for all PP moulding and thick section extrusion applications ( mainly sheets ).
Purging Compound	PG/01/0002	50%	Cleaning and sourcing agent. Provides time saving production process by quick changeover of colours/different grades with minimum material wastage.	All extrusion and moulding processes requiring frequent colour changes. Also used for purging of burnt particles in extruders/dies.

### **AddKan Speciality Compounds : High performance masterbatches for cost effective solutions.**

**Performance enhancing masterbatches based on proprietary mix of carrier resin for improved mechanical properties.**

Grade Name	MFI (gm/10min)	Application	Recommended Loading
Techno Tuff Spl	5 ± 3	PP Woven Sacks	2 to 5%, improves mechanical properties, tear resistance in films and film smoothness.
Techno Tuff Tpt	<1	HD/PP Woven Sacks & PE Films	Transparent additive. Recommended addition level 2 to 5%. Improves mechanical properties, tear resistance and film smoothness.
Techno Tuff B	15 ± 5	PP/PE Woven Sacks & PE Films	2 to 5%, improves mechanical properties, tear resistance in films and film smoothness.
Techno Std ML	4 ± 2	Multilayer Films	Specially designed to impact modifying compound for multilayer films. Recommended addition level 10 to 20%.
Tech Blow	<3	Blow Mouldings	Specially designed for blow moulding applications and can be used at 5 to 15% addition levels without much effect on strength.

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