

MA 00929 PP-SC

Polypropylene Modifier Masterbatch

PRODUCT

DESCRIPTION: MA 00929 PP-SC consists of a transparent fully hydrogenated hydrocarbon resin in a polypropylene carrier, and is sold in the form of transparent pellets.

APPLICATIONS: MA 00929 PP-SC modifier masterbatch is used in production of cast and biaxially oriented polypropylene (BOPP) films. MA 00929 PP-SC may also be used in polypropylene tapes.

Addition of MA 00929 PP-SC to polypropylene grades used in production of BOPP films will result in lower extrusion and stretching temperatures, larger temperature windows for TDO orientation and less film breakage during production.

Benefits to the finished product resulting from use of MA 00929 PP-SC may include:

- Superior clarity of the film
- Improvement of the shrinkage values for clear packaging films
Shrinkage properties will be improved in conjunction with suitable production parameters such as high stretch ratios and lower temperature in the TDO, especially in the annealing zone.
- Improvement of film stiffness
- Improved barrier properties - WVTR, OTR, and aroma are improved
- Modification of the film surface
Reduction of the micro roughness of the skin layer surface improves the adhesion of the aluminum when metalizing film.
- Improved twist retention and dead-fold characteristics
MA 00929 PP-SC is a good choice for candy wrapping film.

ADDITION LEVELS: Optimum addition levels are determined by testing MA 00929 PP-SC in an application. Addition levels depend on the film properties desired, production parameters, film thickness and the polymer to be modified.

Generally addition of 5% to 10% results in improvements in processing (lower required temperatures), clarity, and metallization. Addition of 10% to 25% will result in noticeable increases in film stiffness and shrinkage properties, and 25% to 40% is required to obtain improved twist and barrier properties.

There is no known incompatibility of MA 00929 PP-SC with any other polymer additive.

STORAGE: MA 00929 PP-SC must be stored in a cool, dry place. Storage at temperatures higher than 25°C or in very humid conditions may diminish the performance of the masterbatch. Drying before use may be required for optimum results, but overheating should be avoided.

Unopened packages should not be stored longer than 24 months. MA 00929 PP-SC is supplied in 600 kg cardboard gaylords.

APPROVALS: MA 00929 PP-SC has been authorized for use in food contact applications. Detailed information is available by request.

TYPICAL

PROPERTIES:	Density:	0.94 g/cm ³
	Bulk Density:	0.53 g/cm ³
	Volatiles:	< 0.10 %
	MFR (190°C/2.16kg):	40.0 g/10 min

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