



Maleic Anhydride Grafted Polypropylene (PP-g-MA)

SP2024 is a maleic anhydride modified homopolymer polypropylene. The grafting operation of the polypropylene backbone is achieved using a new technology that allows high grafting efficiency and low polymer scission.

ITEM	Value	Unit	ASTM Testing Method
MFI (230 C / 2.16 KG)	120-150*	gr/10min	D1238
Density	0.90	gr/cm ³	D1505
Grafting Level	High	-	Company Methods

*The MFI value can be customized by customer requirements

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PP Coupling Agents also known as Maleic Anhydride coupling agent, Maleic Anhydride graft, Maleated Polypropylene, Grafted Polypropylene, or PP coupling agent, is one of the most efficient coupling agents of Polypropylene and different fillers. Depending on co or homo polymer base, PP-G-MA has various applications, it mostly engages in producing of Carbonate compounds, modification of plastic material, formulation of hot melt adhesives, reinforced panels, formulation of inks, paints, and coatings, and compounds that contain mineral additives, etc.... This graft helps in compound properties improvement, increasing of fillers amounts, moderating the production fees, better dispersion of fillers, better wetting procedure, preventing of agglomeration, property improvements, and paint ability of products surfaces, better adhesion of fiber and filler, ability to use more percentage of wood fibers, bumper pain ability and more. In fact, the non-polarity of Polypropylene and the polarity of most fillers that are used for property improvements, result in substantial incompatibilities between polymer and filler and this incompatibility prevents proper distribution of polymer matrix and consequently leads to composite properties reduction. Homopolymer base has higher strength, stronger hardness, good chemical resistance, good weldability, good impact resistance, good hardness, and is suitable for food contact.

Applications

Compatibilizer for glass, mica, talc, wood and natural fiber reinforced PP, providing enhanced physical and thermal properties, specially used in automobile inner plastic parts; Adhesive resin for blends such as PP/PA and PP/EVOH to increase processing and mechanical properties. Chemical coupling agent for fillers like mica talc, calcium carbonate, wood flour in PP compound.

Packaging and storage

Depending upon the customer's requirement packaging can be done in 1-ton jumbo bags or 25-kg bags. The bags can be further palletized for dispatch Transported, and stored in a dry and clean place and avoid direct sunlight, flames, and corrosives. It should be used as soon as possible after opening the bags. Shelf life: Best to be used within twelve months from the day of manufacturing under storage conditions.