



## Maleic Anhydride Grafted Polyethylene (PE-g-MA)

**SP1011** is coupling agent based on polyethylene the grafting operation of the polyethylene backbone is achieved using a new technology that allows high grafting efficiency and low polymer scission.

ITEM	Value	Unit	ASTM Testing Method
<b>MFI (190 C / 2.16 KG)</b>	0.7-1.2	gr/10min	D1238
<b>Density</b>	0.92	gr/cm <sup>3</sup>	D1505
<b>Tensile Strength At Yield</b>	13	Mpa	D638
<b>Izod Impact Strength</b>	No break	J/m <sup>2</sup>	D256
<b>Melting Temperature</b>	≥ 120	c°	D3418
<b>Maleic Anhydride Graft Level</b>	High	-	Company Methods

### Maleic Anhydride Grafted Polyethylene (PE-g-MA)

PE Coupling Agents are also known as Maleic Anhydride coupling agents, Maleic Anhydride graft, Maleated Polyethylene, or Grafted Polyethylene, PE coupling agent, is one of the most efficient coupling agents of Polyethylene and different fillers. PE-G-MA mostly engages in producing Carbonate compounds, Talc, Fiber, Wood Plastics, PE/Nylon blends, gunny bags, and so on. 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, paint ability of products surfaces, the polarization of PE and Polyamide-multilayered films, 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 Polyethylene 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. Therefore, it is so essential to use a proper coupling agent such as PP-g-MA, to produce a Polypropylene-based compound and mineral fillers with proper properties.

### Applications

Nucleating Masterbatches Slip Masterbatches Optical Brightener Masterbatches Antistatic Masterbatches UV Light Stabilizer Masterbatches Polymer Processing Aid Masterbatches PE graft coupling agent of Sabin Polymer arvand Company, results in more compatibility of Polyethylene compounds with talc, glass fibers, wood plastics and more and increases their properties.

### 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.