



## **Technical Data Sheet**

### **MAH-grafted Grade MAH 10**

Maleic Anhydride Grafted LLDPE

#### **Description**

MAH-grafted LLDPE grade MAH 10 is a chemical modified linear low density polyethylene by grafted with maleic anhydride. The general principle of this compatibilizer is to reduce interfacial energy between two polymers in order to increase adhesion.

It is a specialty designed and engineered not only to meet these needs, but also to improve the adhesion between polymers and fillers, such as talc, glass fiber, and wood powder.

Adding MAH-grafted LLDPE MAH 10 can greatly increase mechanical performance and surface properties. And also results in finer dispersion, as well as more regular and stable morphologies

#### **Typical Properties**

<b>Item</b>	<b>MAH-grafted LLDPE MAH 10</b>
Appearance Basic Resin	Translucent pellet Linear low density polyethylene
Melt Index, g/10min(190°C,5Kg)	0.7-0.9
Grafted Maleic Anhydride Content	0.5-0.7

#### **Application**

MAH-grafted grade LLDPE MAH 10 is a modified polymers that have been functionalized (typically by maleic anhydride grafting) to help bond together dissimilar polymers used in toughened, filled and blended compounds. Some of their typical applications are as below:

1. Coupling agents for halogen-free, flame-retarded Wire & Cable compounds containing fillers such as aluminum trihydrate (ATH) or magnesium hydroxide (Mg(OH)<sub>2</sub>) or for natural fiber (wood) plastic compounds.
2. Compatibilizers for dissimilar thermoplastic resins like PA66 with PP, to produce polymer alloy.
3. Coupling agents and compatibilizers for inorganic mineral filler or fiber glass filled plastic, to enhance the dispersion and adhesion; improve the tensile strength, impact strength, flexural strength.

#### **Packing/Storage**

**MAH 10** is supplied in pallet form, packed in 25kg kraft with PE liner bags. Unopened bags can be stored for 1 year. Store bags in shaded area. This product can be readily conveyed and fed through conventional equipment designed for palletized polyethylene.

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