

## Compatilizer/Toughener

# JOYPOLYMER™ Compatilizer/Toughener

## Compatible, Toughen, Adhension



### Description

**JOYPOLYMER™** Compatilizer/Toughener is a series of products developed by the introduction of South Korean technology of Joycolor new materials. It adopts advanced polymer physical blending technology and chemical grafting modification technology to give the carrier strong polar groups and strong bonding properties. It has very excellent adhesion, compatibility and coupling agent performance. It has very excellent adhesion, compatibility, coupling agent performance. The use of this series of products can effectively improve the compatibility of a variety of polymers in the blend, thereby improving the toughness and impact strength of products. It can also be used to increase the adhesion between PE polyethylene and PA, EVOH and other barrier resins, making the film more solid; Strengthen bonding with metal, PO, aluminum foil, cellulose resin, PET, PC, glass and other substrates.

### Addition method and proportion

**JOYPOLYMER™** Compatilizer/Toughener series products are ease diluted evenly in polymer melts and can be added directly or by pre-blending. The proportion to be added depends on the performance requirements of the final application. The typical rates in the final articles vary from 2%-10%.

### Applications

Model	Percent grafting	Application
JC-1010	1.0	1、 It can be used as compatilizer for PP/PA, PP/PE alloy and various polymers; 2、 Together with PE, used for WPC to improve performance; 3、 Used as interface modifier of glass fiber and mineral filled PP, can greatly improve the interface bonding force of PP and glass fiber, calcium carbonate, aluminum hydroxide, magnesium hydroxide, wood powder, wollastonite, talc, mica and other inorganic materials; Used as compatilizer for PP and resins containing polar groups (such as PA) ;
JC-1020	2.0	4、 Used to improve the coloring ability of polypropylene, can improve the coating and spray performance of polypropylene. It is especially used for the preparation of special materials for paintable automobile bumper.
JC-2010	1.0	1、 As PC, PC/ABS compatilizer, improve impact resistance; 2、 Suitable for PA6, PA66 strengthening and toughness, improve the impact performance of PA6, PA66, forming processability and reduce water absorption; 3、 used for glass fiber reinforced PE, filled with PE (talcum powder, aluminum hydroxide, magnesium hydroxide, wood powder, mica, wollastonite) modifier, improve the coupling and adhesion of inorganic minerals and polymers, improve toughness;
JC-2020	2.0	4、 It is suitable for wood-plastic composites to improve impact performance, hydrolysis resistance and mechanical properties of composites 5、 Suitable for low smoke and halogen free cable material, improve elongation and surface feel.
JC-2605	0.5	1、 Used to increase the bond between PE and PA, EVOH and other barrier resins, making the film more firm; 2、 used to enhance the adhesion with metal, PO, aluminum foil, cellulose resin, PET, PC, glass and other substrates, and has the role of coupling agent compatibility agent, can increase the compatibility between the materials;
JC-2610	1.0	3、 used as toughening and impact resistant modification for polyamide and other engineering plastics ; 4、 When used for PE film, it can increase the thermal sealing adhesion of PE film 5、 Suitable for blow molding and flow-casting film, sheet and thermoforming, blow molding, extrusion coating and laminating, pipe, spraying and other special application products.

The data above is typical test values for guidance only, not final product specifications. Product specifications can be provided based on custom requirements.

### Packaging

5KG/ bag polyethylene bag. Store in a dry place. Recommended storage life: up to one year if stored as directed. After more than a year, it is recommended to retest the moisture content before use.