



Kimcross 1104

Polypropylene Compatibilizer

Product Description

Kimcross 1104 is a high performance functionalized polypropylene produced by reactive extrusion. It has been primarily designed to be used as coupling agent between organic and inorganic fillers and polypropylene matrix. This grade is approved by IFDA (Iran Food and Drug Administration) for using in food packaging compounds.

This grade is designed to:

- Achieve compatibility between polypropylene and organic fillers e.g. wood flour & starch.
- Achieve compatibility between polypropylene and inorganic fillers e.g. calcium carbonate, talc, etc.
- Improved mechanical properties e.g. Impact & tensile strength and flexural modulus of filled polypropylene.

General

Material Status	• Commercial: Active
Availability	• Middle East, Europe, Asia
Features	• Good Adhesion • Good Process Ability
Uses	• Wood Plastic • Starch-Based Bio Compound
Appearance & Form	• Natural (Yellowish)
Packaging	• 25 Kg PE Bag, 1000 kg Jumbo Bag
Processing Method	• Extrusion

Nominal Value Unit

Test Method

Physical	Nominal Value Unit	Test Method
Density	0.906±0.005g/cm ³	ISO 1183
Melt Flow Index (190°C, 2.16kg)	18±3 g/10min	ISO 1133
Melting Point	165±1 °C	ISO 11357
Graft Level	High*	Internal Method

*Low: 0.1-0.3%, Medium: 0.3-0.5%, High:0.5-1.0%

Processing Conditions

Kimcross 1104 can be added to polypropylene to achieve optimum dispersion within filled matrices and achieve the best performance. Compounding parameter that can lead to optimized performance include extruder type, screw design, barrel temperature, screw speed, material feeding sequence. Our experienced technical service engineers are always on hand to help you in achieving the best performance from your processing and compounding operations.

Shelf Life & Storage

Shelf life at proper storage is at least 12 months from production date. Kimcross 1104 should be stored in dry condition 23±2 °C and protect from sunlight. Improper storage conditions may cause degradation and have consequences on physical and chemical properties of the product.

Note

The data and information contained herein are typical average values, based on our current level of knowledge and experience, and do not constitute sales specifications. No liability, warranty or guarantee of product performance is created by this document. It is the buyer's responsibility to inspect and test our products in order to determine the suitability for the buyer's application.