



Kimcross 1127

Polyethylene Grafted Maleic Anhydride

Product Description

Kimcross 1127 is a high performance maleic anhydride functionalized high density polyethylene (HDPE) produced by reactive extrusion. It has been primarily designed to be used as coupling agent between organic and inorganic fillers and polyethylene matrix.

This grade is designed to:

- Improved dispersion of wood flour and mineral fillers in the matrix.
- Achieve compatibility and adhesion between polyethylene and polyamide.
- Achieve compatibility between polyethylene and inorganic fillers e.g. wood flour.
- Achieve compatibility between polyethylene and organic fillers e.g. calcium carbonate, talc, barium sulfate, etc.
- Improved mechanical properties e.g. Impact & tensile strength and flexural modulus of filled polyethylene.

General

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

Nominal Value Unit

Test Method

Physical

Density	0.960±0.003g/cm ³	ISO 1183
Melt Flow Index (190°C, 5kg)	1.6±0.3 g/10min	ISO 1133
Melting Point	133±1 °C	ISO 11357
MA Graft Level	Very high*	Internal Method

*Low: 0.1-0.3%, Medium: 0.3-0.5%, High:0.5-1.0%, Very high: 1-1.5%

Processing Conditions

Kimcross 1127 can be added to polyethylene 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 1127 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.