



## Kimcross 1102

### Polypropylene Grafted Maleic Anhydride

#### Product Description

Kimcross 1102 is a high performance maleic anhydride 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 designed to:

- High efficiency coupling agent for glass-filled polypropylene.
- 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              | • Filled Polypropylene • WPC           |
| Appearance & Form | • Natural                              |
| Packaging         | • 25 Kg PE Bag, 1000 kg Jumbo Bag      |
| Processing Method | • Extrusion                            |

#### Nominal Value Unit

#### Test Method

| Physical                        | Nominal Value Unit           | Test Method     |
|---------------------------------|------------------------------|-----------------|
| Density                         | 0.902±0.005g/cm <sup>3</sup> | ISO 1183        |
| Melt Flow Index (190°C, 2.16kg) | 100±10 g/10min               | ISO 1133        |
| Melting Point                   | 166±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 1102 can be added to polypropylene to achieve optimum dispersion within glass-reinforced and 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 1102 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.