

SCONA 12031 N

Dispersing aid for polyethylene color concentrates to reduce the tendency to warp.
 Compatibilizer for blends of polyethylene with polar polymers to improve mechanical and optical properties.

Product data

Composition

Chemically modified high density polyethylene

Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

| | |
|-------------------------|------------------|
| Grafting functionality: | Maleic anhydride |
| Grafting level: | 0.43 % |
| MFR (190 °C, 2.16 kg): | 12 g/10 min |
| Color: | off-white |
| Delivery form: | pellet |

Storage and transportation

Store in sealed containers in a cool, dry, and well-ventilated location.

Applications

Thermoplastics

Special features and benefits

SCONA 12031 N is a high-performance polymeric modifier based on high-density polyethylene (HDPE) functionalized with maleic anhydride. The additive is an excellent dispersing aid for polyethylene color concentrates improving the dispersion quality and especially reducing the tendency to warp caused by the pigment. SCONA 12031 N works also with untreated pigments having a high tendency to create warpage such as phthalocyanine or diketopyrrolopyrrole (DPP) pigments. In addition to that the additive is an excellent compatibilizer for blends of polyethylene and polar polymers such as polyamides and ethylene vinyl alcohol and improves the dispersion of the polar polymer. This results in better mechanical and optical properties of the compatibilized material. SCONA 12031 N also acts as an excellent coupling agent for polyethylene wood and glass fiber compounds.

Recommended use

| | |
|-----------------|-------------------------------------|
| Compatibilizers | <input checked="" type="checkbox"/> |
| Dispersing aids | <input checked="" type="checkbox"/> |
| Coupling agents | <input type="checkbox"/> |

especially recommended recommended

Recommended levels

Coupling agent: 1–4 % additive (as supplied) based upon the total formulation, depending on the fiber content.

Compatibilizer: 5–30 % additive (as supplied) based upon the polyethylene content in polymeric blends.

Dispersing aid: 40–80 % additive (as supplied) based upon the organic pigment in color concentrates.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

This product can be added via volumetric or gravimetric dosing units during processing in all types of extruders, blow molding, and injection molding machines. In filled materials, to ensure good wetting of fibers/fillers, feeding through the main feed is preferred.



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