

Technical Data Sheet

Product Commercial Name: Maxstab RY 511N

Description: Nucleating Agent for PP

Chemical Name: Sodium 2, 2'-methylene-bis-(4, 6-di-tert-butylphenyl) phosphate

Chemical Formula: C₂₉H₄₂NaO₄P

Molecular Weight: 508.61

CAS No.: 85209-91-2

Product Description

Maxstab RY 511N is the second generation of aryl phosphate type stiffening and transparent nucleating agent that is applicable to the crystalline polymer. It is characterized by high melting point, outstanding thermal stability and strong nucleating ability, and its effects are very remarkable on improving the transparency, stiffness, tensile strength, creep resistance of products. It applies to all kinds of modified polypropylene products. It's free of aldehyde odor, precipitation and discoloration. The significant effect of Maxstab RY 511N is that it can improve the stiffness/rigidity.

Typical Properties

Appearance: White powder.

Moisture (%): ≤ 1.0

Melting point (°C): ≥ 400 (DSC Test Method)

Scope of Application

- *As a stiffening agent*, Maxstab RY 511N is mainly used in the homo polypropylene and polypropylene random copolymer, such as the production of modified polypropylene products with high crystallinity, high stiffness and high heat resistance. The product mainly applies to the production of polypropylene products, for example, car bumper, internal trim panel of the car, instrument panel and shell of small appliances (electric iron, hair drier, electric cooker and electric saucepan).
- *As a transparent agent*, Maxstab RY 511N is mainly used in the polypropylene random copolymer, such as the production of transparent modified polypropylene products. It can improve the stiffness while improving the transparency. The product mainly applies to the production of medical devices such as disposable infusion sets, disposable injectors and disposable syringes as well as food containers.

Application Description

Suggested dosage level of 0.2-0.3%, Dry blend for at least 10 minutes (speed at 1000 RPM) to make sure even

distribution. In order to improve the product's dispersity in the resin, the methanol or ethanol solution is often mixed into the resin.

Package and Storage

Net 20KGS / PE bag unit, net 500KGS / Carton / Pallet.

The product should be protected against moisture and damp during transportation and stored in dry and ventilated place away from the fire source.

Storage Life

24 months from production date.