

Technical Data Sheet

Product Commercial Name: Maxstab RY 521

Description: Nucleating Agent for PP

Chemical Name: Aluminium hydroxybis [2,2'-methylene-bis(4,6-di-tert-butylphenyl)phosphate]

Chemical Formula: C₅₈H₈₅AlO₉P₂

Molecular Weight: 1015.22

CAS No.: 151841-65-5

Product Description

Maxstab RY 521 is the third generation of nucleation agent as polyvalent metal salt of cyclic organo-phosphoric ester type chemical, applying to crystallization of polymers. This product offers improved mechanical and thermal properties and easy processing characteristics. It can improve stiffness, strength, hot deformation temperature, transparency and gloss. It can also increase crystallization rate and temperature to shorten processing cycle so as to improve processing efficiency. The product is suitable for food contact applications.

Typical Properties

Appearance: White powder.

Melting point (°C): ≥ 210 (Capillary Test Method)

Scope of Application

- *As a stiffening agent*, Maxstab RY 521 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 521 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 for hot filled beverage bottle.

Application Description

Suggested dosage level of 0.05-0.3%, Dry blend for at least 10 minutes (speed at 1000 RPM) to make sure

even distribution.

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.