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Trade registration nr. 50769421 Chamber of Commerce Utrecht

Technical Data Sheet

17 August 2025

Product name:	AH-372
Product Form:	Powder
Chemical name:	Polymeric carbodiimide
Synonym:	n/a
CAS No:	151-51-9
EINECS No:	
Molecular formula:	n/a
Molecular weight:	n/a

Structure formula:

n/a

Chemical Specification

Appearance	White powder
Carbodiimide (%)	12.0 min.
Melting point (°C)	58 – 64
Loss on drying (%)	0.5 max.

Packing: In 25kgs net bag/carton, 20bags/cartons (500kgs net) on pallet

Shelf life: 24 months

Features and application:

AH-372 is a polymerized carbodiimide that can be widely used in mixed modification materials such as TPU,PET/PBT,TPEE and nylon. As an anti-hydrolysis stabilizer for PET, PBT, PA, TPEE, EVA, PHA, PBS, PBAT and other resins, it can effectively inhibit the degradation of mechanical properties of materials caused by hydrolysis. At the same time, it can also block the active end carboxyl groups of polyester materials, repair damaged polyester and polyurethane materials, repair molecular chains broken due to hydrolysis, and extend the service life of polymer products under harsh working conditions such as high temperature and humidity.

Typical application methods

AH-372 is used as an anti-hydrolysis agent of PBAT, PET, PBT,PA, TPEE etc, its dosage and usage are as follows:

1. In systems such as PLA/PBAT, adding 0.6%-1% to the resin can effectively reduce the acid value and improve hydrolysis resistance.

2. In high temperature and humidity resistant seal products: Add 1-3% of this product to the TPEE system, and the resulting elastomer products can be used in high temperature and humidity environments for a long time and maintain good mechanical properties.
3. In PET and PBT industrial glue yarn, adding 1.0-3.0%wt can extend the hydrolysis resistance of the glue yarn by 3-7 times.
4. In nylon products, the addition amount is 1-2.0%wt. The obtained nylon product can withstand 95-degree boiling water for 72 hours, and its performance only drops by 5-7%.

Storage

Store under dark, low temperature, dry and sealed conditions.