

Hydrolysis Stabilizer AWR-02

Description

AWR-02 is a new anti-hydrolysis agent which can effectively restrain the mechanical property degradation of TPU, polyester polyurethane adhesives, and polyurethane shoe-sole systems based on polyester polyols, caused by hydrolysis.

In addition, **AWR-02** can close the active carboxyl-terminated end of the polyester. Furthermore, it can repair the amputated molecules by cross-linking with carboxyl groups, thereby prolonging the service life of the products.

Typical Properties

Chemical Constitution:	Polycarbodiimide
Physical Form:	Bright yellow liquid
Density:	1.10g/cm ³ (25°C/77°F)
Freezing Point:	< 5°C
Solubility:	Soluble in organic solvents such as acetone and methylene chloride; soluble in water.
Carbodiimide content:	≥ 6%

Technical Advantages

- ✓ Liquid additive, easy for adding
- ✓ High activity, react rapidly with carboxyl group
- ✓ High purity, with no isocyanate residue
- ✓ Excellent yellowing resistance, with a wide range of applications

Typical Applications

TPU/polyester polyurethane adhesives/ polyurethane automotive and shoe-sole systems based on polyester polyols. **AWR-02** can significantly improve the anti-hydrolysis resistance (tensile strength, elongation, melt viscosity and acid content) of TPU, polyester polyurethane adhesives, and polyurethane automotive and shoe-sole systems based on polyester polyols.

All the information above is based on data obtained at laboratory and is not to be used for certifying the suitability of the product. Users are advised to test the product in their own system before purchase.

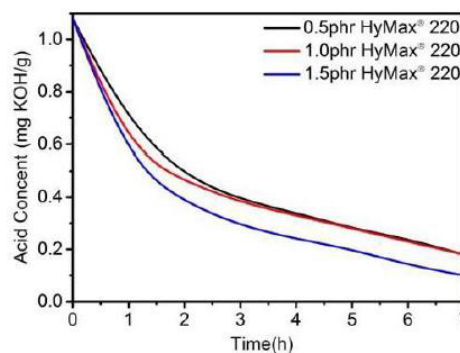
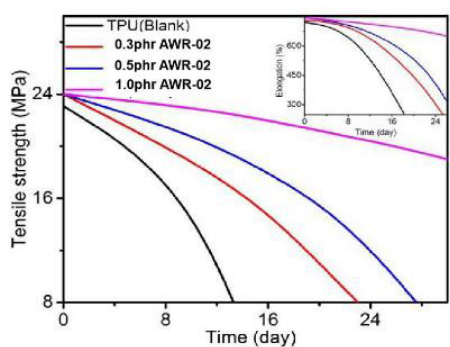
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Recommended Dosage:

0.5-2.0 phr. The amount can be adjusted according to the initial acid value and the final acid value (especially used to reduce the acid value).

Ageing conditions: 80°C

Boiling conditions: stirring at 120°C in polyester polyol



Storage Stability:

AWR-02 can be stored for at least one year without deterioration in the original sealed package.

25 kg plastic barrel lined with PP

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