

**Safe and Environmentally Friendly**

## Hydrolysis Stabilizer for Polyester Resin

# CARBODILITE™

CARBODILITE thermoplastic powder type contains carbodiimide group [—N=C=N—]. It improves anti-hydrolysis property for various types of polyester resin.

Polyester resin tends to degrade by the hydrolysis causing lower mechanical properties. Remaining carboxyl groups in the resin as well as those caused by the hydrolysis act as catalysts to accelerate hydrolytic decomposition of the resin.

CARBODILITE reacts with these carboxyl groups, suppressing the catalytic promotions. Also, CARBODILITE introduces cross-linking by the same reactions to fasten the amputated molecules. By these combining mechanism, CARBODILITE can effectively suppress the hydrolysis.

Grade	CARBODILITE HMV-8CA
Appearance	Pale yellow powder
Ave. Diameter	≅ 1000 μ m
Softening point	About 70°C
Decomposition Temp. (TG)	340°C
Hue (YI)	≅ 23

### Key Benefits

- ✓ Excellent heat resistance
- ✓ Low toxicity
- ✓ Remarkable improvement in anti-hydrolysis property of polyester resin