Pigment Yellow 12

1. Product Information

Colour Index No.: C.I. PY12

Chemical Name: Diarylide Yellow AAA

Chemical Class: Disazo Pigment (Diarylide Yellow)

CAS No.: [6358-85-6]

EINECS No.: 228-787-8

Molecular Formula: $C_{32}H_{26}CI_2N_6O_4$

Typical Structure: 3,3'-Dichlorobenzidine based disazo pigment

2. Typical Physical and Chemical Properties

Property Specification / Description

Appearance Greenish-yellow powder

Hue Greenish yellow

Density (g/cm³) Approx. 1.4 - 1.6

Oil Absorption (g/100g) Approx. 45 - 60

pH Value (10% slurry) 6.5 - 8.0

Lightfastness (1-8) 5-6 (Moderate to Good)

Heat Resistance (°C) 160 - 180

Water Resistance (1-5) 5 (Excellent)

Technical Data Sheet

Property Specification / Description

Oil Resistance (1-5) 4 (Good)

Acid Resistance (1-5) 4 (Good)

Alkali Resistance (1-5) 3 (Moderate)

(Note: 1=Poor, 5=Excellent; Actual performance depends on application media and processing conditions)

3. Application Characteristics

Primary Applications:

Printing Inks: The primary application, especially in offset printing

inks, flexographic inks, and gravure inks for packaging

Plastics: Used in PVC, rubber, and other polymers processed at moderate

temperatures

Coatings: Limited to indoor applications due to moderate lightfastness

Office Products: Suitable for coloring stationery items

Key Advantages:

Clean, bright greenish-yellow shade

High tinting strength

Good transparency

Cost-effective

Good printability

Technical Data Sheet