

Micronised polyamide rheology modifier for high-solids and solvent-free systems

Polyamide

Typical Characteristics

Nature	Polyamide
Appearance	Off-white micronized powder
Solid Content (%)	100
Active Content (%)	100
Specific gravity	0.98
Bulk density	0.4-0.6
Particle size distribution	DV. 1 min: 1.5 µm / DV. 9 max: 15.0 µm

Description

CRAYVALLAC® OPTIMA is a high performance, micronised amide wax rheology modifier suitable for high-solids and solvent-free applications recommended for its ease of activation and smooth viscosity recovery (good levelling). CRAYVALLAC® OPTIMA overcomes those difficulties which exist with hydrogenated castor oil based rheology modifiers e.g. seeding and false-body without the need of increasing the temperature of activation. Its smooth viscosity recovery will help to achieve high film thickness without compromising a good levelling.

Recommended addition level

0.2-1.5% under heat and shear

Standard Packaging

Other packaging may be available upon request

- 15 Kg Bag

Handling & Storage

It should be stored in the original containers in a dry place at temperatures between 5°C (41°F) and 30°C (86°F). Avoid exposure to direct sunlight or frost. In these conditions, this product should be used within 48 months from delivery.

Processing instructions

The use of high-speed dispersers is ideal for the incorporation and activation of CRAYVALLAC® OPTIMA in that they develop both the necessary level of shear and temperature. CRAYVALLAC® OPTIMA is best added along with the initial charge of resin during the pigment dispersion and grind stage. Efficient activation will be achieved by allowing the temperature during dispersion to rise to 40 - 70°C (104 - 158°F), but more preferably from 55 - 65°C (131 -149°F), and maintaining this condition of dispersion and temperature for 20 - 30 minutes.

Health and environmental data

For safe handling please refer to the Safety Data Sheet. For more information about health and environmental data, please contact us.

Coatings & Inks
- Industrial Coating

Key Benefits

Formulation

- Easy handling

Storage

- Antisettling
- In-can appearance
- Syneresis resistance

Application

- Edge-coverage
- Sag resistance
- Sprayability

Film Properties

- Anticorrosion
- Water resistance
- Chemical resistance

APEO free: Yes

Bacteria resistance: Yes

Bio content (%): 92

Heavy metal free: Yes

Solvent-free: Yes

Thickening mechanism

Non Associative	●●●●●
Self Association	○●●●○
Associative	○●●●○

Viscosity contribution

Low Shear contribution ●●●●●

Mid Shear contribution ●●●○●

High Shear contribution ○●●○●