英泰材料
INTECH MATERIALS

Technical Data Sheet of Synthetic Resin INT 8605

INT 8605 is a synthetic resin of alicyclic linear oligomer with low hydroxyl value, containing carbonyl groups. Soluble in almost organic solvents and exhibits excellent wetting and dispersing effects on coatings. It can also improve coating film's water–resistance, adhesion, gloss and hardness etc when being used as a kind of excellent multifunctional additive in coatings/printing ink formulation.

1、Main Technical Data

Property	Description & Data	Test Method
Appearance	Colorlessly crystal or slightly yellowish, hard small piece, no obvious mechanical impurities after dissolution	Naked eye
Softening point(℃)	100–110	ISO 4625–1:2004
Color Gardner[1]	<1	ISO 4630–1:2004
Acid value(mgKOH/g)	<3	ISO 2114:2000
Hydroxyl value(mgKOH/g)	50–70	DIN 53240–2:1998
Density(g/cm^3)	1.15 ± 0.05	ISO 1183–1:2004(E)B

[1] The resin is 50% (mass fraction) solution in ethanol.

2、Solubility

Soluble in paint solvents such as alcohols, ketones, esters and so on, but insoluble in water. Its solubility in aromatic hydrocarbon and nonpolar solvents such as mineral oil, aliphatic hydrocarbon, alicyclic hydrocarbon is limited.

3、Compatibility

compatible with most coatings/paint resins including:

Alkyd resin	Phenolic aldehyde resin	Vinyl chloride copolymer
Cellulose nitrate	Chlorinated rubber	Acrylic ester resin
Cellulose acetate–butyrate	Epoxy resin	Polyurethane resin
Polyamide resin	Rosin	Phthalate plasticizer

4、Application

- Dissolved into solvents to prepare the 50% resin solution, and then added it into coatings/oil ink formulas appropriately. Recommended adding percentage is 5–30% of the formula's total mass.
- Used in coatings/oil ink formula to effectively coating film's gloss, adhesiveness, hardness, drying speed and fullness.

5、Package & Storage

- Package: 25kg/bag
- Stored in dry and cool environment.
- Shelf life not less than 12 months and able to be used after validity period if key data still conform to requirements after being tested.