

P3978 SATURATED POLYESTER RESIN

PRODUCT

Properties

P3978 is a saturated polyester resin, which is used together with TGIC (by 93:7) or Primid (by 95:5) to produce pure polyester powder coatings, Super-durable, giving high gloss, excellent flow effect and outstanding weathering resistance.

Specifications

Appearance: Light yellow & clear flake

Color (DMF50%): 5-10

Acid value (mgKOH/g): 30-34

Glass Transition Temperature (°C): ≥63

Viscosity (200°C/mPa.s): 3000-4500

Technical condition for making coatings

Extruder: SLJ-30AF

Clamp set temperature(°C): 110-120

Helix pole temperature(°C): 60

Rotational speed(rpm): 50

Powder particle size(μm .max): 100

Curing condition: TGIC: 200°C/15 min (metal temperature)

Primid: 180°C/15 min (metal temperature)

Package and Shelf Life

a. Package: net 25kgs in PE bag or multi-ply paper bag;

b. Shelf Life: in a ventilative, dry and clean place under 30°C, its shelf life is one year.

Recommended Formulation

INGREDIENT	WEIGHT
Polyester resin P3978	595g
TGIC	45g
TiO ₂ (R902)	350g
Flow agent(PV88/GLP588)	10g
Benzoin	3g
Polyester resin P3978	605g
Primid XL-552/T105	32g
TiO ₂ (R902)	350g
Flow agent(PV88/GLP588)	10g
Benzoin	3g

Coating film properties

Film thickness(μm): 70± 10 Gloss (60°C) %: ≥90
 Bend (mm): ≤6 Impact intensity(kg·cm): 50
 Pencil hardness: 1H

Spraying methods and conditions

Oilless and rustless cold-rolled steel plate (mm): 0.5
 Electrostatic spraying (kv): 50

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