

P3985(90:10) SATURATED POLYESTER RESIN

PRODUCT

Properties

P3985(90:10) is a saturated polyester resin, which is used together with Primid XL-552/T105 (by 90:10) to produce pure polyester powder coatings, for matte dry blend systems in combination with P3982(97:3).

Specifications

Appearance: Light yellow & clear flake

Color (DMF50%): 5-10

Acid value (mgKOH/g): 50-52

Glass Transition Temperature (°C): ≥60

Viscosity (200°C/mPa.s): 3000-4500

Recommended Formulation

INGREDIENT	WEIGHT
Polyester resin P3985(90:10)	270g
Primid XL-552/T105	30g
TiO ₂ (R902)	125g
BaSO ₄	68.5g
Flow agent(PV88/GLP588)	5g
Benzoin	1.5g

Technical condition for making coatings

Extruder: SLJ-30AF

Clamp set temperature(°C): 120-130

Helix pole temperature(°C): 70

Rotational speed(rpm): 60

Powder particle size(μm .max): 100

Curing condition: 180°C/10 min (metal temperature)

Coating film properties

Film thickness(μm): 70± 10 Gloss (60°C) %: ≤50±10

Bend (mm): ≤6 Impact intensity(kg·cm): 50

Pencil hardness: 1H

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.

Spraying methods and conditions

Oilless and rustless cold-rolled steel plate (mm): 0.5

Electrostatic spraying (kv): 50

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