

P2609-1 (60:40) SATURATED POLYESTER RESIN

PRODUCT

Properties

P2609-1 (60:40) is a saturated polyester resin, which is used together with epoxy resin (by 60:40) to produce hybrid polyester powder coatings, low temperature curing, giving high gloss and excellent flow effect.

Specifications

Appearance: Light yellow & clear flake

Color (DMF50%): 5-10

Acid value (mgKOH/g): 50-55

Glass Transition Temperature (°C): ≥55

Viscosity (200°C/mPa.s): 4000-5500

Technical condition for making coatings

Extruder: SLJ-30AF

Clamp set temperature(°C): 110-120

Helix pole temperature(°C): 60

Rotational speed(rpm): 60

Powder particle size(μm .max): 100

Curing condition: 160°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 P2609-1 (60:40)	360g
Epoxy resin (E-12)	240g
Padding	377g
Flow agent(PV88/GLP588)	10g
Benzoin	3g
Leveling agent (701B)	10g

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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