

General Description

P 5416 is a low reactivity polyester resin, designed for 96:4 TGIC curing system, especially for matt-gloss powder coatings combined with Longcester® P 5015 by dry-blended process. Coatings based on it exhibit:

- Good storage stability
- Very good outdoor durability

Extrusion & Application Conditions

Extruder:	Lingyu SLJ-25
Zone I temp.:	85~105 C
Zone II temp.:	100~120 C
Screw speed:	400~500rpm
Panel:	0.5mm pre-treated cold-rolled steel
Spray gun:	Lingyu SJ-5
Voltage:	60~90kV
Curing cycles:	20 min. @ 180 C ; 10 min. @ 200 C

Packaging

- White PE bag, N.W.25kg/bag, 1000kg/pallet.
- Big bags 750 kg.

Storage

The product can be stably stored for at least one year when kept in closed containers in a dry place at temperature below 30 C. Avoid exposure to direct sunlight.

Product Specifications

Property	Range	Test Method
Appearance	Pale granules	Visual
Acid value	20~26 mgKOH/g	ASTM D1639
Viscosity	3000~4000 mPa.s	ASTM D4287
Color	max.2	ASTM D1544
Tg	appr. 64	DSC

Starting Formulation

Component	Weight	
P 5416	57.8	—
P 5015	—	54.5
LC-TGIC	2.8	6.1
Titanium dioxide	38.0	38.0
LC-88 Flow agent	1.0	1.0
Benzoin	0.4	0.4

Film Properties

Item	Result	Test Method
Film thickness, μm	approx. 60	ASTM D1186
Gloss @ 60°, %	~25	ASTM D523
Direct/reverse impact, inch lbs	160/160	ASTM D2794
1/8" Conical mandrel	pass	ASTM D522
Adhesion(cross cut)	5B	ASTM D3359
Pencil hardness	H	ASTM D3363

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