

Longcester® P 5418

Saturated, carboxylated polyester resin

Product Data Sheet

General Description

TGIC cure resin, 96/4 type, for architectural purposes. Can be used for dryblend low gloss with P5016
Outdoor durable

- Slow cure.
- Flow
- Flexibility
- Matte gloss

Extrusion & Application Conditions

Extruder:	Lingyu SLJ-20
Zone I temp.:	90~105 °C
Zone II temp.:	90~105 °C
Screw speed:	400~500rpm
Panel:	0.5mm pre-treated cold-rolled steel
Spray gun:	Lingyu JP-80
Voltage:	60~90kV
Curing cycles:	10min. @ 200 °C

Packaging

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

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	clear granule	Visual
Viscosity	40~60 pa.s	Longcai method
Acid value	20~24 mg KOH/g	Longcai method
Color	Max 10	Longcai method
Tg	appr.65	Longcai method

Starting Formulation

Component	Weight	
P 5418	660.0	/
P 5016	/	618.5
LC-TGIC	27.5	69.0
Titanium dioxide ²⁾	300.0	300.0
LC-88 Flow agent ³⁾	9.5	9.5
Benzoin	3.0	3.0

Film Properties

Item	Result	Test Method
Film thickness, μm	approx. 60	ASTM D1186
Gloss @ 60°, %	15 unit	ASTM D523
Direct/reverse impact, inch lbs	120/120	ASTM D2794
1/8" Conical mandrel	pass	ASTM D522
Adhesion(cross cut)	5B	ASTM D3359
Pencil hardness (Mar)	H	ISO 15184-98

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