

General Description

Longcester® P 5708-1 is a high reactivity polyester resin, designed for 93:7 TGIC curing powder coatings. Coatings based on it exhibit:

- Very good storage stability
- Good flow
- Outstanding mechanical properties
- Excellent 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:	12 min. @ 180 C ;10 min. @ 200C

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	30~36 mg KOH/g	ASTM D1639
Viscosity	4500~6000 mpa.s	ASTM D4287
Color	max.2	ASTM D1544
Tg	appr. 67	DSC

Starting Formulation

Component	Weight
P 5708-1	558.0
LC-TGIC	42.0
Titanium dioxide	300.0
LC-88 Flow agent	9.0
Benzoin	4.5

Film Properties

Item	Result	Test Method
Film thickness, μm	approx. 60	ASTM D1186
Gloss @ 60°, %	min. 90	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

Yantai Longcai Advanced Materials Co., Ltd

No.18 Hangzhou Road., Haiyang Development Zone, Yantai, China
Post code: 265100

Tel.: +86 535-330 6639

Web-site: www.longcester.com

Fax: +86 535-330 6828

E-mail: info@longcester.com

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