Longcester®

Longcester® P 1200
Saturated, hydroxylated polyester resin

Product Data Sheet

General Description

P1200 is isocyanate cure for architectural and industrial purpose.
· Ratio 80/20 for caprolactam blocked
· Medium reactivity
· Excellent flow
· Good mechanical performance
· Suitable for high gloss finish

Extrusion & Application Conditions

Extruder:	Lingyu SLJ-20
Zone I temp.:	85~105℃
Zone II temp.:	100~120℃
Screw speed:	400~500rpm
Panel:	0.7mm pre-treated cold-rolled steel
Spray gun:	Lingyu SJ-5
Voltage:	60~90kV
Curing cycles:	15 min. @ 200℃

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℃. Avoid exposure to direct sunlight.

Product Specifications

Property	Range	Test Method
Appearance	clear granule	Visual
Viscosity	45~55 pa.s	ASTM D4287
Hydroxyl value	35~45 mg KOH/g	ASTM E222
Color	Max 2	ASTM D1544
Tg	appr. 62	DSC

Starting Formulation

Component	Weight
P 1200	80.0
LC-1530	20.0
Titanium dioxide	50.0
LC-88 Flow agent	1.5
Benzoin	0.5

Film Properties

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