

# Longcester® LC-1530

## Hardener for Polyurethane Powder Coatings

### General Description

A hardener for outdoor resistant polyurethane powder coatings. Excellent impact resistance.

- Good weather resistance and good flow properties
- High Cross-Linking Density with excellent chemical resistance

### Extrusion & Application Conditions

Extruder:	Lingyu SLJ-20
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 JP-80
Voltage:	60~90kV
Curing cycles:	10 min. @ 200 °C

### Packaging

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

### 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 flake	Visual
NCO content, total	14~15%	ISO11909
Tg (°C)	45~55	ISO11357
Equivalent weight	approx. 310	
Melting range(°C)	approx. 70 - 80	
Density	1.14	DIN53479

### Starting Formulation

Component	Weight
Longcester® P 1200	83.0
LC-1530	17.0
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 @ 60°, %	min. 90	ASTM D523
Direct/reverse impact, inch lbs	80/80	ASTM D2794
1/8" Conical mandrel	pass	ASTM D522
Adhesion(cross cut)	5B	ASTM D3359
Pencil hardness (Mar)	H	ISO 15184-98