

Longcester® LC-552

Hydroxyalkylamide Crosslinker

General Description

LC-552 is a widely used in exterior polyester powder coatings. Excellent color stability.

- Molecular Formula:C14H28N2O6
- Molecular Weight:320
- Proven exterior durability in florida
- No hazard labelling required

Extrusion & Application Conditions

Extruder:	Lingyu SLJ-20
Zone I temp.:	85~105 °C
Zone II temp.:	110~125 °C
Screw speed:	400~500rpm
Panel:	0.5mm pre-treated cold-rolled steel
Spray gun:	Lingyu JP-80
Voltage:	60~90kV
Curing cycles:	15 min. @ 180 °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	White granules	Visual
Hydrpoxyl number [mgKOH/g]	550~650	ISO 3001
Melting Range (°C)	100~110	ISO11357-1
Water content	<1.0%	Longcai method

Starting Formulation

Component	Weight
Longcester® P 8518	300.0
LC-552	15.8
Titanium dioxide	150.0
LC-88 Flow agent	5.0
Benzoin	3.0

Film Properties

Item	Result	Test Method
Film thickness, μm	approx. 60	ASTM D1186
Gloss @ 60°, %	min. 85	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 (Mar)	H	ISO 15184-98