

### General Description

LC-603E is low molecular weight solid reaction product of epichlorohydrin and bisphenol-A.

LC-603E developed mainly for use in powder coatings. It can be incorporated in both pure epoxy and epoxy/polyester systems where the relationship between its melt viscosity and softening point properties ensures the production of homogeneous powders with good gloss, excellent flexibility and smoothness, and good storage stability.

### Extrusion & Application Conditions

Extruder:	Lingyu SLJ-25
Zone I temp.:	85~105 C
Zone II temp.:	90~110 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, 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
Melt viscosity@150°C (cSt)	2000 – 4000	ASTM D-445
Solution Viscosity @25°C (1)	370-550mPa-s	ASTM D-445
Softening Point (°C)	92~102	ASTM D-3104
Color	Max 5	ASTM D-1544
EEW(g/eq)	750~850	ASTM D-1652

(1) 40 wt% in diethylene glycol monobutyl ether

### Starting Formulation

Component	Weight
P 3308	420.0
LC-603E	180.0
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°, %	92 unit	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

### 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