

General Description

LC-604E is medium molecular weight solid reacton product of epichlorohydrin and bisphenol-A.

LC-604E is 3.5 type epoxy resin, it is suitable for hybrid and epoxy powder coatings with excellent flexibility, chemical resistance 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)	3500 – 5000	ASTM D-445
Solution Viscosity@25°C	500 – 700 mPa.s	ASTM D-445
Softening Point (°C)	96~107	ASTM D-3104
Color	Max 1	ASTM D-1544
EEW(g/eq)	780~850	ASTM D-1652

(1) 40wt% in diethylene glycol monobutyl ether

Starting Formulation

Component	Weight
P 3307	420.0
LC-603H	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

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