

# Longcester<sup>®</sup> LC-TGIC Tris(2,3-epoxy Propyl) Isocyanurate

## **General Description**

LC-TGIC is a widely used in polyester powder coatings, Plastic and Rubber adhesive additives.

- · Molecular Formula:C12H15N3O6
- · Molecular Weight:297
- · High Cross-Linking Density with excellent heat resistance
- $\cdot$  Low chlorine contents, inhibit deterioration and electrolytic corrosion

## **Extrusion & Application Conditions**

Extruder:	Lingyu SLJ-20
Zone I temp.:	85~105 °C
Zone II temp.:	100~120 <sup>°</sup> 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  $\odot$ . Avoid exposure to direct sunlight.

Product Specifications				
Property	Range	Test Method		
Appearance	White granules	Visual		
Epoxy equivalent [g/eq]	<110	ISO 3001		
Melting Range ( $^\circ\!\!C$ )	90~125	ISO11357-1		
Chlorine content	<1.5%	VTM116		
Volatile Matter	<1.0%			
Epichlorohydrin	<100ppm	VTM347		
Density g/cm3	1.46	ISO 8130-3		
Flashing point( $^\circ C$ )	>200	ISO 2592		

Starting Formulation	
Component	Weight
Longcester <sup>®</sup> P 5706	300.0
LC-TGIC	23.0
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. 90	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)	Н	ISO 15184-98		

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