

### General Description

LC-1076 is a Phenolic Primary Antioxidant for Processing and Long-Term Thermal Stabilization.

Chemical Structure:  
 Octadecyl-3-(3,5-di-tert.butyl-4-hydroxyphenyl)-propionate  
 Molecular weight: 531 g/mol  
 Chemical Abstract Number: 2082-79-3  
 Recommended levels: 0.1~0.5% (total formulation)

### Extrusion & Application Conditions

Extruder: Lingyu SLJ-20  
 Zone I temp.: 85~105°C  
 Zone II temp.: 90~110°C  
 Screw speed: 400~500rpm  
 Panel: 0.7mm pre-treated cold-rolled steel  
 Spray gun: Lingyu SJ-5  
 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	White powder	Visual
Melt Point	50~55°C	Longcai method
Molecular Weight	531	Structure

### Starting Formulation

Component	Weight
P 3317	70
LC-603H	30
Titanium dioxide	50.0
LC-88 Flow agent	1.5
Benzoin	0.5
LC-1076	0.3

### Film Properties

Item	Result	Test Method
Film thickness, μm	approx. 60	ASTM D1186
Gloss @ 60°, %	min. 93 unit	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	H	ASTM D3363

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