

# EP-4105

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<b>POWDER COATING RESINS</b>	<b>TGIC</b>
<b>PE : HARDENER = 96 : 4</b>	

## Description

EP-4105 is a saturated carboxylated polyester resin designed for 96/4 TGIC powders to be cured at 200°C. A 1:1 dry blend based on EP-4103 and EP-4105 gives a very nice matte finish at approximately 26-30 % gloss at 60 degree.

## Specification

Item	Limits
Acid value (mg KOH/g)	20 - 26
Viscosity @ 200 °C, (mPa.s)	7500 - 9500
Color,b value	Max 10

## Other

Item	Typical value
Glass transition temperature (°C)	60

## Storage conditions

The resin in its original unopened bags is stable for more than 1 year, stored in a dry place at temperature below 30°C. Avoid direct sunlight.

## Delivery form

Granules. White opaque polyethylene bags of 25kg. One ton per pallet .

## Starting Formulation

Component	Weight (g)
EP-4105	576
TGIC	24
TiO <sub>2</sub>	386
Flow agent	10
Benzoin	4

## Application/Extrusion Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
1 <sup>st</sup> Zone Temperature	100°C
2 <sup>nd</sup> Zone Temperature	120 °C
Application	
Application	70 micrometer film on 0.5 mm chromated Al panel
Spray Gun	Output voltage: 70 kV
Curing	10 min @ 200° C metal temperature

## Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	90
Cupping test (mm)	9
Direct impact (kg.cm )	120
Reverse impact (kg.cm )	120
Adhesion (grade)	0

## System Properties

- ❖ Outstanding storage stability
- ❖ High chemical resistance
- ❖ Excellent durable resistance
- ❖ Good flow

ZHEJIANG GUANGHUA TECHNOLOGY CO., LTD <a href="http://www.khua.com">www.khua.com</a>	Customer Service	Technical Service
	Tel. 86-573-87771555 Fax 86-573-87771222	Tel. 86-573-87771188 Fax 86-573-87771222

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