

# EP-2105-1

Version: Aug 30,2017

<b>POWDER COATING RESINS</b>	<b>TGIC</b>
<b>PE : HARDENER = 93 : 7</b>	

## Description

EP-2105-1 is a saturated carboxylated polyester resin designed for 93/7 TGIC powders to be cured at 200°C. Coatings based on EP-2105-1 combine an excellent flow together with outstanding over-baking resistance.

## Specification

Item	Limits
Appearance	Pale granules
Acid value (mg KOH/g)	30 - 36
Viscosity @ 200 °C, (mPa.s)	4500 - 5500
Color(50% DMF), APHA	Max 150

## Other

Item	Typical value
Glass transition temperature (°C)	68

## 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-2105-1	558
TGIC	42
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	95 °C
2 <sup>nd</sup> Zone Temperature	115 °C
Application	
Application	70 micrometer film on 0.5 mm chromated Al panel
Spray Gun	Output voltage: 70 kV
Curing	10 min @ 190° C metal temperature

## Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	95
Cupping test (mm)	10
Direct impact (kg.cm )	80
Reverse impact (kg.cm )	80
Adhesion (grade)	0

## System Properties

- ❖ Very good durable ability
- ❖ Excellent flow
- ❖ Outstanding mechanical properties
- ❖ Good over-baking resistance

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