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ZHEJIANG GUANGHUA TECHNOLOGY

**Technical Data Sheet**

# GH-1150

Version: September 1,2020

| POWDER COATING RESINS | HYBRID |
|---|---|
| **PE : HARDENER = 50 : 50** | |

## Description

GH-1150 is a saturated carboxylated polyester resin designed for 50/50 hybrid powders to be cured at 180°C. Coatings based on GH-1150 combine a good flow together with good physical matting effect.

## Specification

| Item | Limits |
|---|---|
| Acid value (mg KOH/g) | 66 - 76 |
| Viscosity @ 200 °C, (mPa.s) | 3000 - 4000 |
| Color, b value | Max 20 |

## Other

| Item | Typical value |
|---|---|
| Glass transition temperature (°C) | 56 |

## 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 .

| Component | Weight (g) |
|---|---|
| GH-1150 | 300 |
| Epoxy resin | 300 |
| $TiO_2$ | 386 |
| Flow agent | 10 |
| GH-7709 | 2 |
| Benzoin | 4 |

## Starting Formulation

## Application/Extrusion Conditions

| Extrusion | |
|---|---|
| Extruder | Twin screw |
| Speed | 250 rpm |
| 1st Zone Temperature | 95 °C |
| 2nd Zone Temperature | 105 °C |
| **Application** | |
| Application | 70 micrometer film on 0.5 mm steel panel |
| Spray Gun | Output voltage: 70 kV |
| Curing | 15 min @ 180° C metal temperature |

| Test Items | Result |
|---|---|
| Film thickness (microns) | 60-80 |
| Gloss @ 60° (%) | 90 |
| Cupping test (mm) | 7 |
| Direct impact (kg.cm ) | 150 |
| Reverse impact (kg.cm ) | 150 |
| Adhesion (grade) | 0 |

## Coating Properties

## System Properties

- Very good boiling water resistance
- Very good flow
- Good matte effect


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