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**Technical Data Sheet**

# GH-2221

Version: September 1,2020

| POWDER COATING RESINS | TGIC |
|---|---|
| PE : HARDENER = 94 : 6 | |

## Description

GH-2221 is a saturated carboxylated polyester resin designed for 94/6 TGIC powders to be cured at 200°C. Coatings based on GH-2221 combine a good flow with mechanical properties.

## Specification

| Item | Limits |
|---|---|
| Acid value (mg KOH/g) | 28 - 33 |
| Viscosity @ 200 °C, (mPa.s) | 4500 - 5500 |
| Color, b value | Max 10 |

## Other

| Item | Typical value |
|---|---|
| Glass transition temperature (°C) | 63 |

## 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) |
|---|---|
| GH-2221 | 564 |
| TGIC | 36 |
| $TiO_2$ | 386 |
| Flow agent | 10 |
| Benzoin | 4 |

## Application/Extrusion Conditions

| Extrusion | |
|---|---|
| Extruder | Twin screw |
| Speed | 250 rpm |
| 1st Zone Temperature | 95 °C |
| 2nd 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 @ 200° C metal temperature |

## Coating Properties

| Test Items | Result |
|---|---|
| Film thickness (microns) | 60-80 |
| Gloss @ 60° (%) | 92 |
| Cupping test (mm) | 10 |
| Direct impact (kg.cm ) | 80 |
| Reverse impact (kg.cm ) | 80 |
| Adhesion (grade) | 0 |

## System Properties

- Good flow
- Good mechanical properties
- Excellent flexibility


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