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ZHEJIANG GUANGHUA TECHNOLOGY

**Technical Data Sheet**

# GH-6607

Version: September 1,2020

| POWDER COATING RESINS | PU |
|---|---|
| PE : HARDENER = 40 : 60 | |

## Description

GH-6607 is a saturated hydroxylated polyester resin designed for 40/60 polyurethane powders to be cured at 190°C. GH-6607 is designed for one shot matte PU powder coatings. Coatings based on GH-6607 combine an excellent flow together with good weathering resistance and solvent resistance.

## Specification

| Item | Limits |
|---|---|
| Appearance | Pale granules |
| Hydroxyl value (mg KOH/g) | 270 - 310 |
| Viscosity @ 200 °C, (mPa.s) | 3000 - 6500 |
| Color(b* value) | Max 10 |
| Acid value (mg KOH/g) | Max 3 |

## Other

| Item | Typical value |
|---|---|
| Glass transition temperature (°C) | 50 |

## 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-6607 | 240 |
| Vestgon B 1530 | 360 |
| $TiO_2$ | 385 |
| Flow agent | 10 |
| Benzoin | 5 |

## 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 @ 190° C metal temperature |

## Coating Properties

| Test Items | Result |
|---|---|
| Film thickness (microns) | 60-80 |
| Gloss @ 60° (%) | 90 |
| Cupping test (mm) | 3 |
| Direct impact (kg.cm ) | 30 |
| Reverse impact (kg.cm ) | 20 |
| Adhesion (grade) | 0 |

## System Properties

- Good weathering resistance
- Excellent chemical resistance
- Excellent flow
- High hardness


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