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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-5513

Version: September 1,2020

POWDER COATING RESINS	HAA
PE : HARDENER = 98 : 2	

Description

GH-5513 is a saturated carboxylated polyester resin designed for 98/2 HAA powders to be cured at 200°C. GH-5513 is designed for one shot matte HAA powder coatings with GH-5512. Coatings based on GH-5513 combine an excellent flow together with good weathering resistance.

Specification

Item	Limits
Appearance	Pale granules
Acid value (mg KOH/g)	10 - 14
Viscosity @ 200 °C, (mPa.s)	4200 - 5200
Color(b* value)	Max 10

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.

Starting Formulation

Component	Weight (g)
GH-5513	588
HAA	12
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 @ 200° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	90
Cupping test (mm)	3
Direct impact (kg.cm)	40
Reverse impact (kg.cm)	20
Adhesion (grade)	0

System Properties

- Good weathering resistance
- Low hardener demand
- Excellent flow

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