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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-5511

Version: September 1,2020

POWDER COATING RESINS	PRIMID
PE : HARDENER = 96.5 : 3.5	

Description

GH-5511 is a saturated carboxylated polyester resin designed for 96.5/3.5 Primid powders to be cured at 200°C. GH-5511 is super-durable grade, coatings based on GH-5511 combine a good flow together with an excellent durable ability. It can combined with GH-5514 for dry blend super-durable matte.

Specification

Item	Limits
Appearance	Pale granules
Acid value (mg KOH/g)	22 - 27
Viscosity @ 200 °C, (mPa.s)	4500 - 5500
Color(b*)	Max 10

Other

Item	Typical value
Glass transition temperature (°C)	61

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-5511	579
XL-552	21
TiO_2	386
Flow agent	10
Benzoin	4

Application/Extrusion Conditions

Extrusion	
Extruder	Twin screw
Speed	40 HZ
1st Zone Temperature	100 °C
2nd Zone Temperature	120 °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)	4
Direct impact (kg.cm)	40
Reverse impact (kg.cm)	20
Adhesion (grade)	0

System Properties

- Excellent flow
- Low hardener demand
- Excellent durable ability

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