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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-5514

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POWDER COATING RESINS	PRIMID
PE : HARDENER = 92 : 8	

Description

GH-5514 is a saturated carboxylated polyester resin designed for 92/8 Primid powders to be cured at 170°C. GH-5514 is superdurable grade, it's designed for dry-blend matte finished together with GH-5511,coatings based on GH-5514 combine a good flow together with an excellent durable ability.

Specification

Item	Limits
Appearance	Pale granules
Acid value (mg KOH/g)	52 - 60
Viscosity @ 200 °C, (mPa.s)	3500 - 4500
Color(b*)	Max 10

Other

Item	Typical value
Glass transition temperature (°C)	65

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-5514	552
XL-552	48
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 @ 170° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	92
Cupping test (mm)	9
Direct impact (kg.cm)	40
Reverse impact (kg.cm)	20
Adhesion (grade)	0

System Properties

- Fast cure
- Excellent durable ability

ZHEJIANG GUANGHUA TECHNOLOGY CO., LTD www.zjguanghua.com	Customer Service	Technical Service
	Tel. 86-573-87771555 Fax 86-573-87771222	Tel. 86-573-87771188 Fax 86-573-87771222

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