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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-3333

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POWDER COATING RESINS	PRIMID
PE : HARDENER = 96.5 : 3.5	

Description

GH-3333 is a saturated carboxylated polyester resin designed for 96.5/3.5 Primid powders to be cured at 180°C, can be used for dry blend matt or smooth finish. Coatings based on GH-3333 combine a good flow together with good mechanical property.

Item	Limits
Appearance	Pale granules
Acid value (mg KOH/g)	18 - 24
Viscosity @ 200 °C, (mPa.s)	5000 - 7000
Color(b value)	Max 10

Specification

Item	Typical value
Glass transition temperature (°C)	55

Other

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-3333	579
XL-552	21
TiO_2	386
Flow agent	10
Benzoin	4

Application/Extrusion Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
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 @ 180° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	95
Cupping test (mm)	8
Direct impact (kg.cm)	50
Reverse impact (kg.cm)	50
Adhesion (grade)	0

System Properties

- Good flow
- Good flexibility

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