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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-3305 （High acid value）

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POWDER COATING RESINS	PRIMID
PE : HARDENER = 95 : 5	

Description

GH-3305 (high AV) is a saturated carboxylated polyester resin designed for 95/5 Primid powders to be cured at 180°C. Coatings based on GH-3305 (high AV) combine a good flexibility together with good mechanical property.

Item	Limits
Appearance	Pale granules
Acid value (mg KOH/g)	32 - 37
Viscosity @ 200 °C, (mPa.s)	4000 - 5000
Color(b value)	Max 10

Specification

Item	Typical value
Glass transition temperature (°C)	62

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 .

Component	Weight (g)
GH-3305 (high AV)	570
XL-552	30
TiO_2	386
Flow agent	10
Benzoin	4

Starting Formulation

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: 60 - 80 kV
Curing	10 min @ 180° C metal temperature

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	93
Cupping test (mm)	8
Direct impact (kg.cm)	50
Reverse impact (kg.cm)	50
Adhesion (grade)	0

Coating Properties

System Properties

- ❖ Outstanding mechanical properties
- ❖ Good flexibility

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