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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-5516

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POWDER COATING RESINS	TGIC
PE : HARDENER = 92 : 8	

Description

GH-5516 is a saturated carboxylated polyester resin designed for 92/8 TGIC powders to be cured at 155°C. Coatings based on GH-5516 combine super durable resistance and excellent flow.

Specification

Item	Limits
Acid value (mg KOH/g)	37 - 43
Viscosity @ 175 °C, (mPa.s)	3700 - 4700
Color, b value	Max 10

Other

Item	Typical value
Glass transition temperature (°C)	55

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-5516	552
TGIC	48
TiO_2	386
Flow agent	10
Benzoin	4

Application/Extrusion Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
1st Zone Temperature	95 °C
2nd Zone Temperature	105 °C
Application	
Application	70 micrometer film on 0.5 mm chromated Al panel
Spray Gun	Output voltage: 70 kV
Curing	25 min @ 155° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	93
Adhesion (grade)	0

System Properties

- Super durable ability
- Excellent flow

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