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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-1176

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POWDER COATING RESINS	HYBRID
PE : HARDENER = 70 : 30	

Description

GH-1176 is a saturated carboxylated polyester resin designed for 70/30 hybrid powders to be cured at 180°C. Coatings based on GH-1176 combine a good flow together with good mechanical properties and good gloss.

Specification

Item	Limits
Acid value (mg KOH/g)	27 - 33
Viscosity @ 200 °C, (mPa.s)	5400 - 7600
Color , b value	Max 10

Other

Item	Typical value
Glass transition temperature (°C)	Approx. 60

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-1176	420
Epoxy resin	180
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	115 °C
Application	
Application	70 micrometer film on 0.5 mm Steel 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° (%)	92
Cupping test (mm)	7
Direct impact (kg.cm)	160
Reverse impact (kg.cm)	160
Adhesion (grade)	0

System Properties

- Medium curing speed
- Good flow
- Good mechanical properties
- Good flexibility

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