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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

KE-5051

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POWDER COATING RESINS	HYBRID
PE : HARDENER = 50 : 50	

Description

KE-5051 is a saturated carboxylated polyester resin designed for 50/50 hybrid powders to be cured at 180°C. Coatings based on KE-5051 exhibits excellent flow and very good gloss.

Specification

Item	Limits
Acid value (mg KOH/g)	68 - 73
Viscosity @ 200 °C, (mPa.s)	3000 - 4000
Color, b value	Max 20

Other

Item	Typical value
Glass transition temperature (°C)	56

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)
KE-5051	300
Epoxy resin	300
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	15 min @ 180° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	95
Cupping test (mm)	7
Direct impact (kg.cm)	160
Reverse impact (kg.cm)	160
Adhesion (grade)	0

System Properties

- Excellent flow
- Good mechanical properties
- Good chemical resistance
- Good gloss

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