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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-6605

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POWDER COATING RESINS	PU
PE : HARDENER = 50 : 50	

Description

GH-6605 is a saturated hydroxylated polyester resin designed for 50/50 polyurethane powders to be cured at 190°C. GH-6605 is designed for one shot matte PU powder coatings. Coatings based on GH-6605 combine a excellent flow together with good weathering resistance and solvent resistance.

Specification

Item	Limits
Hydroxyl value (mg KOH/g)	200 - 240
Viscosity @ 200 °C, (mPa.s)	6000 - 8000
Color(b* value)	Max 10
Acid value (mg KOH/g)	Max 5

Other

Item	Typical value
Glass transition temperature (°C)	58

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-6605	300
Vestgon B 1530	300
TiO_2	385
Flow agent	10
Benzoin	5

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 chromated Al panel
Spray Gun	Output voltage: 70 kV
Curing	10 min @ 190° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Reverse impact (kg.cm)	80
Adhesion (grade)	0

System Properties

- Good weathering resistance
- Excellent chemical resistance
- Excellent flow
- High hardness

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