

We use carboxyl polyester resin. Polyester powder coating is mainly applied to air conditioners, crust of park appliance, lamp house, open furniture, and so on.

Product series

Coating can be categorized into two groups: with TGIC or without TGIC. It can produce the product of high gloss (above 80 percent), sub-gloss (20-50 percent), and the matt. The gloss can also be adjusted according to the client's instruction.

Physical characteristics of the powder

Proportion (25°C.g/cm³): 1.4-1.7

Particle-size distribution: 100 percent lower 100 micron (it can be adjusted according to particular requirement of spray)

Typical curing conditions

200°C (work piece temperature), 15 minutes

Performance

Testing	Testing standard or method	Test rating		
		gloss	Semi flat	matt
Impact resistance	GB/T 1732-1993	50kg.cm	40kg.cm	40kg.cm
Cup-drawing test	GB/T 9753-1988	8mm	7mm	7mm
Adhesive force (drawing grid)	GB/T 9286-1998	Grade 0		
Bending	GB/T 6742-1986	2mm	3mm	3mm
Pencil hardness	GB/T 6739-1996	1H-2H		
Salt spraying test	GB/T 1771-1991	> 500 hours		
Humid heat test	GB/T 1740-1979	> 1000 hours		
Heat resistance	150°C/24 hours(white)	Excellent gloss retention, aberration ≤0.3-0.4		
Resistance to climate (accelerated weathering)	60°C/8 hours UV+50°C/4 hours condensation, cycle 500 hours	Gloss retention ≥50% colour stability: aberration		