

INFORMATION SHEET

POWDER COATING



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Polyester Powder

Reference No's

TLP - G Polyester Gloss

Any colour by arrangement subject to quantity.

Description

Polyester powder coating gives exceptional outside durability and resistance to yellowing. The range is specially formulated on selected resins and light-fast pigments to give outstanding durability and is designed to customers requirements.

Application Areas

Agricultural equipment
Automotive components
Garden furniture
Lawn Mowers
Wheels

Architectural cladding
Cookers
Heaters
Radiators
Window frames

Curing Schedules

10 minutes at 180°C metal temperature
5 minutes at 200°C metal temperature

Coating Thickness

Minimum 35 microns
Preferred 55 - 65 microns

Coating Properties

Test Panels, 50 microns thickness applied to light weight zinc phosphated steel.

Pretreatment

It is essential to ensure that the surface to be coated is free from dust, rust, scale, oil, etc. Chemical pretreatment of the substrate is essential to increase the long term corrosion resistance.

Application

Suitable for application by manual or automatic discharge equipment and triboelectric charging guns

Particle Size

100% below 90 microns

Specific Gravity

1.4 - 1.8 depending on colour and finish

Shelf Life

12 months from date of manufacture

Storage

Store below 25°C in dry conditions

Environmental Properties

Humidity resistance	BS3900 F2	Pass	1000	hours
Salt spray resistance	ASTM B117	Pass	1000	hours
Water resistance	BS3900 G2	Pass	1000	hours

Boiling Water Resistance

No blistering after 50 hours

Detergent Resistance

No blistering after 50 hours in 2% boiling tide

Solvent and Chemical Resistance

Good resistance to acids, alkalis and solvents at room temperature. May be attacked by diluted nitric acid, ketones and trichloroethylene.

Exterior Durability

BS3900 Part F2 excellent. Minimal loss of gloss or colour change after 2000 hours.

Physical Properties

Flexibility	BS3900	6 mm	Pass
Scratch	BS3900 E2	4 kg	Pass
Impact	BS1391		
	Direct	80 in lbs	Pass
	Reverse	80 in lbs	Pass
Erichsen cupping	BS3900 E4	6 mm	Pass
Cross hatch	BS3900 E6	100%	Pass