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Powder Coating Data Sheet

Interpon 600 Polyester Powder Coating

PRODUCT DESCRIPTION

Interpon 600 is a series of polyester based powder coatings designed for the exterior environment, offering excellent light and weather resistance from a single coat finish on a variety of substrates. The enhanced heat resistance of Interpon 600 powders makes them ideal for use where color retention on surfaces exposed to continuous heat is required.

POWDER PROPERTIES

Chemical Type	Polyester
Particle Size	Suitable for electrostatic spray
Specific Gravity	1.580 g/cm ³
Stoving Schedule	15 minutes at 190°C [374°F]
(object temperature)	10 minutes at 200°C [392°F]
	8 minutes at 210°C [410°F]

TEST CONDITIONS

Substrate	Mechanical tests:0,7mm Gold Seal polished steel. Chemical and durability tests: Gold Seal lightweight
Pretreatment	Zinc phosphate
Film Thickness	60-70 microns
Stoving	10 minutes at 200°C [392°F](object

MECHANICAL TESTS

Flexibility	BS3900-E11 (Conical Mandrel)	Pass 3mm
Adhesion	BS3900-E6 (2mm Crosshatch)	0
Hardness	BS3900-E2 (2000gms)	Pass – no penetration to substrate
Impact	BS3900-E3	Pass 2.5mm direct and reverse

CHEMICAL AND DURABILITY TESTS

Salt Spray	ASTM B117 (500 hours)	Pass - no corrosion creep more than 3mm from scribe
Cyclic Humidity	BS3900-F2 (1000 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss
Exterior Durability		Excellent - no chalking slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties
Color Stability at elevated temperatures		Excellent for continuous exposure up to 150°C

