

Product Data Sheet

AkzoNobel Powder Coatings

Interpon IT 4004 JL54BC

Product Description

Interpon IT 4004 is a series powder coatings specially designed for application in the plating process in telecom industry. It is a TGIC based product. The coating film has the characteristics of low color deviation and stable performance after plating process. It can be used in outdoor and provide good weatherability and corrosion resistance performance.

Interpon IT 4004 is available in a wide range of colours in gloss, satin, matt and textured effects and can be custom matched to the user's requirements.

Powder Properties

Chemical type	Polyester
Appearance	Depends on specific product
Particle Size	Suitable for electrostatic spray
Gloss	Depends on specific product
Specific gravity	1.2-1.8 g/cm ³ (depending on color)
Storage	Dry cool conditions below 25 °C
Shelf life	12 months (<25 °C)
Stoving schedule (object temperature)	20 min @ 180°C 15 min @ 190°C 10 min @ 200°C Failure to observe the correct curing conditions may cause difference in colour, gloss and the deterioration of the coating properties.

Test Conditions

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

Substrate	Mechanical tests: 0.6mm degreased steel
Pretreatment	Chemical tests: Chromated Q-aluminum panel
Film Thickness	60-80 microns
Stoving Schedule	10 minutes at 200°C (object temperature)

Mechanical Tests

Adhesion	ASTM D3359	5B
	ISO 2409	Gt 0
Pencil hardness	GB/T 9286	Gt 0
	ASTM D3363	>=H
(scratch)	GB/T 6739	>=H
	Impact (direct)	ASTM D2794
GB/T 1732		30kg·cm(may slight diference according to color)

Chemical and Durability Tests

Humidity	ASTM D1735	Pass-1000 hours, no blistering or loss of gloss
Distilled Water Immersion	ASTM D870	Pass-240 hours, no blistering or loss of gloss
Exterior Durability		Excellent – non chalking,after 12 months continuous exposure but no film breakdown or reduction in

Interpon IT 4004

	Chemical Resistance		protective properties Generally good resistance to most acids, alkalis and oils at ambient temperatures
Corrosion Tests	Neutral Salt Spray	ISO 9227	Pass-1000 hours, creep less than 2mm from scribe
Pre-treatment	Aluminum, steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphate of ferrous metals improves corrosion resistance. Aluminum substrates may require a chromate conversion coating.		
Application	Interpon IT 4004 powders can be applied by manual or automatic electrostatic spray equipment, however for consistency of finish automatic equipment is preferred. Unused powder can be reclaimed using suitable equipment and recycled through the coating system. Fluidizing air pressure ~0.7 bar Transport air pressure ~0.7bar Recommended voltage 40-90kV A strict control of the acid concentration , cleaning process and other step that may cause color deviation and performance issues should be carried out for Interpon IT4004 during plating process.		
Damage Repair	Surface preparation	Sanding + Air cleaning	
	Application	Recoat : Lower Voltage	
Safety Precautions	When using, do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment. For further information please refer to the specific product Material Safety Data Sheet (MSDS) available on request from your local AkzoNobel sales office.		
Disclaimer	IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.		
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