

Product Data Sheet

AkzoNobel Powder Coatings

Interpon D1010

Product Description

Interpon D1010 is a new generation TGIC Free Polyester based powder coating formulated on AkzoNobel resin technology.

Interpon D1010 is designed for the exterior environment offering excellent long term light and weather resistance from a single coat finish on a variety of substrates, exhibits a tougher cured film which provides superior damage resistance to packaging materials.

Interpon D1010 is designed to meet or exceed the performance requirements of QUALICOAT (Class1) and AAMA2603.

Interpon D1010 powder coatings are available in a wide range of colours in full gloss, satin and matt finishes. Textured, pearlescent and other special effects can be custom matched to the users' requirements.

Powder Properties

Chemical type	Polyester
Appearance	Depends on specific product
Particle Size	Suitable for electrostatic spray
Gloss	Depends on specific product
Specific gravity	1.2-1.7 g/cm ³ (depending on color)
Storage	Dry cool conditions below 30 °C
Shelf life	12 months
Stoving schedule (object temperature)	20 minutes at 180°C 15 minutes at 190°C 10 minutes @ 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	Al extrusion
Pretreatment	qualified Cr ³⁺ , Cr ⁶⁺ or non-Cr pretreated
Film Thickness	60-80 microns
Stoving Schedule	10 minutes at 200°C (object temperature)

Mechanical Tests

Adhesion	ASTM D3359	5B
Impact	ASTM D2794	Pass-impact power, 2.5NM
Dry film hardness	ASTM D3363	>=H
Boiling water adhesion	QUALICOAT-2.16	0

Chemical and Durability Tests

Constant Climate Condensation	ASTM D 2247	Pass-1500 hours
Accelerated Weathering	ISO 11341	Pass-1000 hours
Exterior Durability	AAMA2603	Pass-1 year Florida exposure 45°S

Interpon D1010

Corrosion Tests

Acetate Acid Salt Spray	ISO 9227	Pass-1000 hours
Salt Spray Resistance	ASTM B117	Pass-1500 hours

Pre-treatment

For maximum protection, it is essential to pretreat components prior to the application of Interpon D1010. Aluminum components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment to clean and condition the substrate.

Application

Interpon D1010 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

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.

Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel

AKZONOBEL Powder Coating (ShenZhen) Co.Ltd
Luotian avenue, Songgang Town, Shenzhen City. T: +86 (0755 27148450) F: +86 (0755 29936451)
AKZONOBEL Powder Coating (LangFang) Co.Ltd
32# Quanxing road, LangFang economic development area. T: +86 (0316 5919519) F: +86 (0316 5919516)
AKZONOBEL Powder Coating (NingBo) Co.Ltd
281#, Middle Wuxiang Road, NingBo City. T: +86 (0574 56801414) F: +86 (0574 55019983)
AKZONOBEL Powder Coating (SuZhou) Co.Ltd
125# Xiangyang road, SuZhou new area. T: +86 (0512 68257828) F: +86 (0512 68259139)
AKZONOBEL Powder Coating (ChengDu) Co.Ltd
9C Longteng industrial city, 155# centural avenue, ChendDu. T: +86 (028 84847493) F: +86 (028 84865050)
AKZONOBEL Powder Coating (WuHan) Co.Ltd
89# Xinhua road, Wuhan economic development area. T: +86 (027 84256701) F: +86 (027 83564473)
www.interpon.com

Copyright © 2014 Akzo Nobel Powder Coatings Ltd. Interpon is a registered trademark of AkzoNobel
Interpon D1010 - Issue #1
Issued: 2014-11-1 Revision Date: 2014-11-1