

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon ReFlex MA010G White

#### Product Description

MA010G is a polyester based powder coating, formulated without TGIC and is designed for exterior exposure offering excellent light and weather resistance from a single coat finish. MA010G is part of the Interpon ReFlex range of powder coatings with high total reflectance, designed specifically for the lighting market.

#### Powder Properties

<b>Chemical type</b>	Polyester TGIC-free
<b>Appearance</b>	Smooth Gloss
<b>Particle Size</b>	Suitable for electrostatic spray
<b>Specific gravity</b>	1.72 ± 0.05 g/cm <sup>3</sup>
<b>Film Thickness</b>	75 – 100 microns
<b>Coverage</b>	7.8 m <sup>2</sup> /kg @75 microns
<b>Storage</b>	Dry cool conditions below 25°C (open boxes must be resealed)
<b>Shelf life</b>	12 months
<b>Stoving schedule</b> (object temperature)	10 - 15 minutes @ 205°C

#### 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.

<b>Substrate</b>	Cold Rolled Steel
<b>Pretreatment</b>	B1000 Iron phosphate
<b>Film Thickness</b>	75 – 100 microns
<b>Stoving Schedule</b>	10 minutes at 200°C

#### Mechanical Tests

	[test]	[results]
<b>Flexibility</b>	ASTM D522	3mm
<b>Adhesion</b>	ASTM D3359	100%
<b>Impact (dir/rev)</b>	ASTM D2794	160/160 kgcm
<b>Gloss (@60°)</b>	ISO 2813	>90
<b>Hardness (scratch)</b>	ASTM D3363	H
<b>Total reflectance</b>	DIN 5036-3	See additional information section below
<b>Reflectance Class</b>	DIN EN 16268	A

#### Chemical and Durability Tests

<b>Salt Spray</b> (1000 hours)	ASTM B117	No corrosion creep >2mm from scribe. No blistering.
<b>Humidity</b> (1000 hours)	ASTM D2247	No blistering or loss of gloss

#### Pre-treatment

Steel surfaces to be coated must be clean and free from grease, mill scale and rust. For maximum protection, it is essential to pre-treat components prior to the application of MA010G. Iron phosphate and zinc phosphate pre-treatment of ferrous substrates improve corrosion resistance. Aluminium substrates may require a chromate conversion coating

#### Application

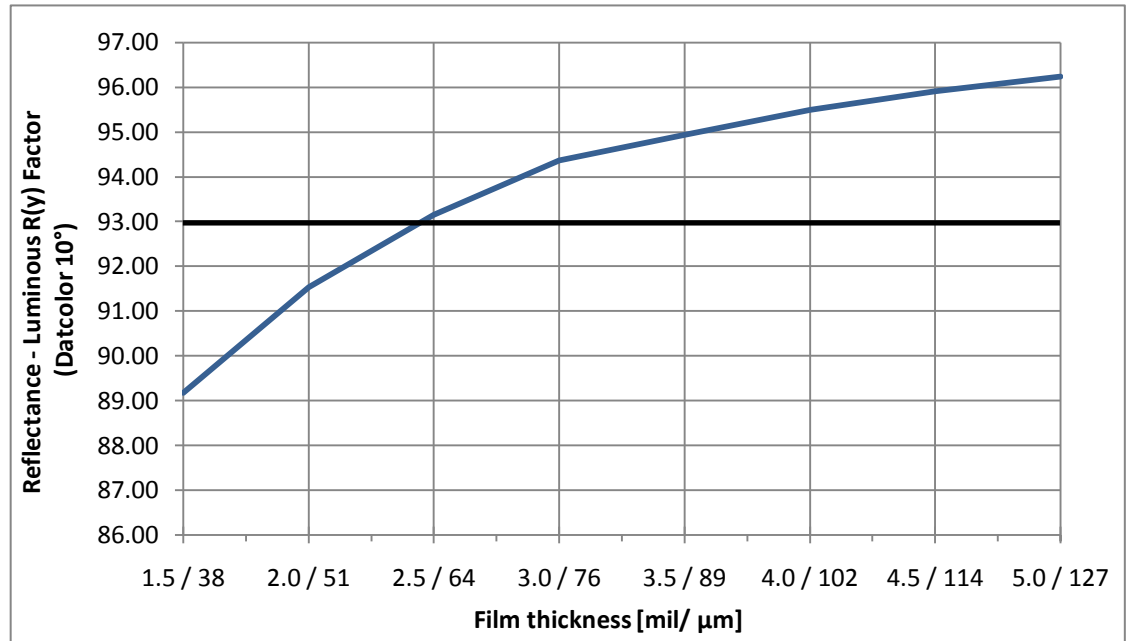
MA010G can be applied using manual or automatic electrostatic spray equipment. It is recommended, that for consistent application and appearance, the product be fluidized during application. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

# Interpon ReFlex MA010G

## Additional Information

After 12 months Florida exposure, MA010G may exhibit slight gloss loss but no chalking, film breakdown or reduction in protective properties are observed.

Total reflectance variation with film thickness is shown in the graph below. Reflectivity is measured using a Datacolor spectrophotometer as per BS EN 16268 but using illuminant D65 and a 10° observer.



## Safety Precautions

Please consult the Material Safety Datasheet (MSDS).

## 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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AkzoNobel Powder Coatings B.V. T +31 (0)71 308 6981  
24 Rijkstraatweg F +31 (0)71 318 6924  
31 / PO Box 32170 BA www.interpon.com  
Sassenheim  
The Netherlands

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