Product Data Sheet

AkzoNobel Powder Coatings
Interpon ReFlex
MA220G
White

Product Description

MA220G 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. MA220G is part of the Interpon ReFlex range of powder coatings with high total reflectance, designed specifically for the lighting market.

Powder Properties

Chemical type	Polyester TGIC-free
Appearance	Smooth Matt
Particle Size	Suitable for electrostatic spray
Specific gravity	1.50 ± 0.05 g/cm³
Film Thickness	75 – 100 microns
Coverage	8.9 m^2/kg @ 75 microns
Storage	Dry cool conditions below 25°C (open boxes must be resealed)
Shelf life	12 months
Stoving schedule (object temperature)	20 – 25 minutes @ 175°C 15 – 20 minutes @ 190°C 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.

Substrate	Cold Rolled Steel
Pretreatment	B1000 Iron phosphate
Film Thickness	75 – 100 microns
Stoving Schedule	10 minutes at 205°C

Mechanical Tests

	[test]	[results]
Flexibility	ASTM D522	3mm
Adhesion	ASTM D3359	100%
Impact (dir/rev)	ASTM D2794	10/5 kgcm
Gloss (@60°)	ISO 2813	4-8%
Total reflectance	DIN 5036-3	See additional information section below
Reflectance Class	DIN EN 16268	A

Chemical and Durability Tests

Salt Spray (500 hours)	ASTM B117	No corrosion creep >2mm from scribe. No blistering.
Humidity (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 MA220G. Iron phosphate and zinc phosphate pre-treatment of ferrous substrates improve corrosion resistance. Aluminium substrates may require a chromate conversion coating

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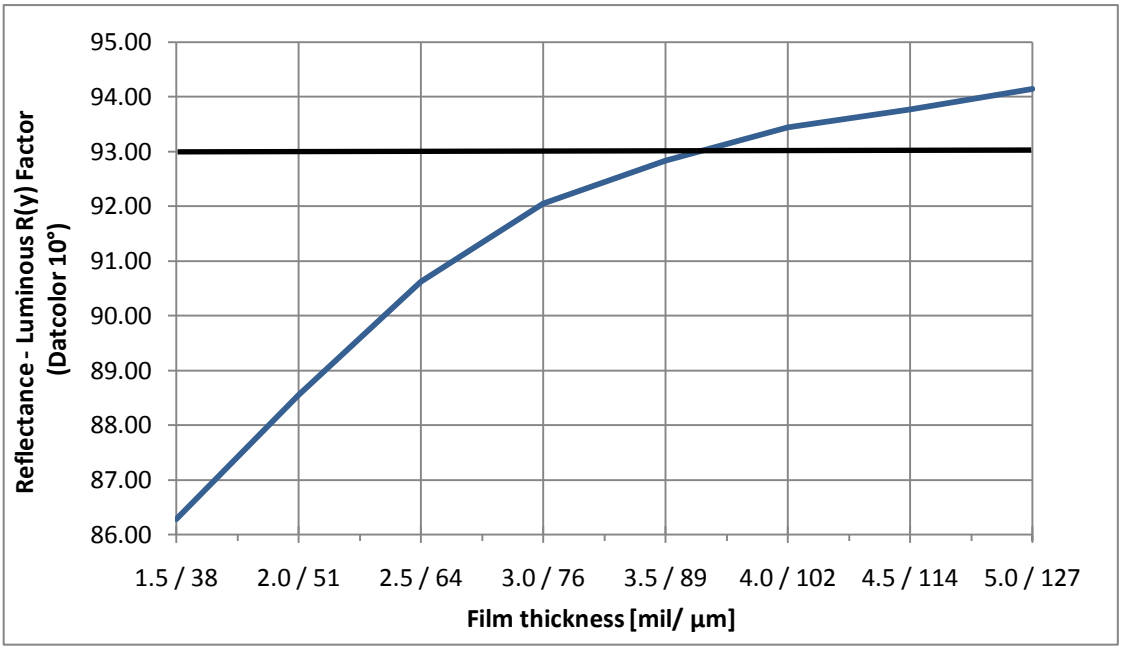
Application

MA220G 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.

Additional Information

After 12 months Florida exposure, MA220G 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^{o} 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.
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