

Rayoface™ Rayofoil™ and Rayoweb™

Customer Advice for the use of Rayoface, Rayofoil and Rayoweb Biaxially Oriented Polypropylene Films (BOPP)

PHYSICAL

- Care should be taken to avoid rough handling of all Rayoface, Rayofoil and Rayoweb materials, particularly top coated products, where such action may induce blocking.
- The fitting of anti-static eliminators to the conversion and dispensing machinery is required. Details of suitable anti-static equipment are available from our Technical Services Department.
- Top coated and metallized film surfaces are relatively soft and easily scratched. Care must be taken during processing and contact with rollers should be minimized.
- Rolls of Rayoface and Rayofoil films with acrylic coated surfaces should be protected from high levels of moisture including humidity, condensation and water splashes at all times. The rolls should remain in the protective covering supplied until ready for use on converting machines. Converted rolls in both master and slit form should be similarly protected at all times.

MECHANICAL

- The low machine direction elongation of printable Rayoface BOPP films enables tight control of print repeat length and register during conversion.
- The balanced orientation of Rayoface, Rayofoil and Rayoweb BOPP films results in excellent die cutting performance in both machine and transverse directions, enhancing the appearance of the cut face and effectively prolonging knife and die life.
- Rayoface, Rayofoil and Rayoweb films have high puncture and impact resistance properties and particular attention should therefore be paid to the maintenance and setting of die cutting systems, where a die suitable for polymeric materials should be employed.

THERMAL

- Rayoface and Rayofoil films are suitable for the labeling of products to be stored under deep-freeze conditions.
- The storage of Rayoface, Rayofoil and Rayoweb films above 86°F is not recommended.

CHEMICAL

- Rayoface, Rayofoil and Rayoweb films generally resist attack by acids, bases, salts, oils, fats and solvents, and are therefore suitable for the labeling of a wide range of products. However, certain solvents, particularly toluene,

methyl ethyl ketone, and the mixed solvents used for lithographic carton printing should not be brought into contact with BOPP films as they may be absorbed into the polypropylene polymer.

CONVERSION

- Corona treated films may experience a deterioration of surface treatment level under adverse storage conditions. In such a case it is recommended that the material be retreated prior to conversion to optimize adhesion of inks, coatings and adhesives. Under recommended storage conditions corona treatment will not deteriorate for up to 6 months from the date of delivery.
- Conversion operations that are particularly critical, eg, use of water based inks, may show different effects with new and aged film. The conversion operation and choice of materials should take this into account.
- Rayoface and Rayofoil films can be printed with a wide variety of inks, but specific systems should be recommended by your ink supplier.
- It is recommended that conversion operations do not incorporate the use of retarders in solvent blends when printing films with acrylic coated surfaces since these may result in increased solvent retention.
- The temperature of the drying air used in conversion operations should be set to ensure that the film temperature does not exceed 165°F for uncoated Rayoface and Rayoweb and 140°F for coated Rayoface and Rayofoil. For coated Rayoface and Rayofoil solvent systems based on ethyl alcohol/ethyl acetate are particularly suitable because they are readily dried from the surface coatings.
- The use of chill rolls prior to film wind up after conversion is strongly recommended.
- Minimum practicable winding tensions should be employed at all times.
- A wide range of adhesives are suitable for use with Rayoface, Rayofoil and Rayoweb films, but specific systems should be recommended by your supplier.

HEALTH & SAFETY GUIDELINES

- For Health and Safety information, please refer to literature reference L190.

FOOD CONTACT

- Please see ref. L110 - 2 of 2 for Food Contact Legislation.



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Food Contact Legislation for the use of Rayoface, Rayofoil and Rayoweb Biaxially Oriented Polypropylene Films (BOPP)

INTRODUCTION

Uncoated Films

Rayoface C, W and CL, and Rayoweb CR and WR films comply with relevant food contact legislation in most countries of the world where legislation exists.

Rayoface V film is not suitable for use in applications involving direct contact with foodstuffs.

Coated Films

The top coated film types Rayoface CDI and WDI comply with relevant food contact legislation in most countries of the world where legislation exists.

The top coated film types Rayoface CA, CPA, ACPA, CZPA, WA, WPA, AWPA, WZPA, VPA, WTT, VTT and Rayofoil MCPA are not suitable for direct food contact with foodstuffs.

For specific inquiries please contact our Technical Services Department.

HEAVY METALS REGULATIONS

The total heavy metal content of Rayoface, Rayofoil and Rayoweb products is significantly lower than required by current regulations, such as that of CONEG (Coalition of North Eastern Governors), European toy safety standard EN71-3; Standard Consumer Specification on Toy Safety - ASTM F963 and European Directive on Packaging and Packaging Waste - (94/62/EC as amended to date).

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