

PRODUCT DATA SHEET

CRYSTALAM 83233

CRYSTALAM CRYSTALAM a range of solvent based inks designed for flexo and gravure printing. These printing inks that has been specifically formulated for reverse printing co-extruded poly propylene and certain other films that are to be subsequently laminated. Laminates printed with CRYSTALAM are being used for packing a wide range of products. The low odour and solvent retention characteristics make it particularly suited to the packaging of food products. With an additive, 83235-1376, the inks are made into surface inks. (See the attachment)

PROPERTIES The properties of CRYSTALAM have been designed to meet requirements of the film/film lamination market with printability and versatility in focus.
Good adhesion and acceptable laminate bond strengths.
Low solvent retention and odour.
Low re-absorption of solvents from the adhesive.
Good printability and tonal reproduction, particularly at high printing speeds.

CAUTION CRYSTALAM is not recommended for high temperature applications such as steam sterilization. CRYSTALAM contains an adhesion promoter that under extreme high temperature/humidity conditions can generate an odour. For food packaging a Gas Chromatograph can confirm the odorous component.
Contact your local technical service department for further information and advice on alternative products.
CRYSTALAM will lose some bond strength in the heat seal area.

TECHNICAL INFORMATION AND INK HANDLING

SUBSTRATES CRYSTALAM is used for reverse printing of co-extruded poly propylene and poly ethylene that are to be subsequently laminated. A drying temperature of 65-70° C (web) is normally sufficient to achieve adhesion to heat sensitive polyolefin films. However, the actual temperature can vary with substrate, process and press conditions. The applications of these films and hence the specification requirements of their end uses and the inks used on them can vary considerably from job to job.

ADHESIVES	CRYSTALAM printed films may be laminated with a number of single, two component solvent based and 100% solids adhesives. The actual bond strength in the printed area is a combined result of the substrate , type of adhesive and the adhesive weight. It is normally necessary to exceed a minimum adhesive weight to achieve acceptable bond strength. The print process, substrates, adhesive and specific requirements should always be discussed with our technical service personnel.									
REDUCTION	<table border="0" style="margin-left: 20px;"> <tr> <td>Normal</td> <td style="padding: 0 10px;">-</td> <td>83060-0850</td> </tr> <tr> <td>Slow</td> <td style="padding: 0 10px;">-</td> <td>83060-1006</td> </tr> <tr> <td>Retarder</td> <td style="padding: 0 10px;">-</td> <td>83060-0900</td> </tr> </table> <p style="margin-left: 20px;">83060-0900 may be used as retarder for general applications but the slow solvents above, are recommended for food packaging. With any slow (retarding) solvent care should be taken to avoid solvent retention as even small percentages of “clean” solvents can cause odour and taint.</p> <p style="margin-left: 20px;">No guarantees for our ink can be given if the above solvent reduction is not followed. The use of other solvents and solvent blends are known to cause problems such as blocking, odour and reduced bond strength. In extremely severe cases the wrong solvent can cause “Ink Chunk Out”.</p>	Normal	-	83060-0850	Slow	-	83060-1006	Retarder	-	83060-0900
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Slow	-	83060-1006								
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WASH UP	83060-0850									
ROLLERS AND STEREOS	Being alcohol rich, CRYSTALAM inks can be run with most normal rubbers rollers and stereos. Photopolymer plates may also be used with high alcohol diluents.									
PRESS SPEED	CRYSTALAM inks may be used at press speeds of 50-250 m/min. using the appropriate reducers. They are particularly suited to high speed printing.									
COLOUR RANGE	CRYSTALAM inks available in wide range of colours only occasionally being limited by selecting pigments suited to particular specification requirements. The pigments used have reasonable light fastness but may not be suited to extended exposure to direct sunlight. If this property is required it should be stated at the time of ordering and pigments of appropriate light fastness will be utilized.									

This information has been carefully compiled from experienced gained in field conditions and detailed laboratory testing. However, the product's performance and its suitability for the customer's purpose depend on the particular conditions of use and the material being printed. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. Since we cannot anticipate or control the conditions under which our products are used it is not possible to guarantee their performance. We would point out that the information contained in this leaflet is only a recommendation and may need to be altered to suit the conditions and efficiency of the equipment employed. Our products are not designed for use in conjunction with those of any other ink maker or similar supplier unless agreed to in writing. All sales are subject of our standard terms and conditions of sale.