Label-Lyte™ PLATINUM THERMAL™

Platinum Thermal™ is a unique substrate. Consequently, the black image is created by a different film design than that of traditional DT and TTR printing. It is similar to DT in that it can be "marked" with sharp mechanical down pressure, but it also provides many attributes that DT doesn't. The Platinum Thermal™ surface can be scratched and does abrade if your goal is to intentionally do so. Regardless of what we observe while scratching and working away at the surface layer with our fingernail, Platinum Thermal™ is often approved as fit for use when the label is tested in "real world" applications (e.g. food/ meat packaging). Jindal Films does have customers who have added their own protective coatings and flood coat inks. Applying coatings has helped to reduce the marring and to improve durability to some extent.

As with any new material, we suggest that you test the substrate in your application to determine fitness for use. That is where the attributes of Platinum Thermal™ will truly shine.

Marring or Surface Contact

The Platinum Thermal™ film will mar similar to DT film materials. This is a function of the imaging technology and is a result of high pinpoint type pressure to the surface. This high pressure collapses the surface layer of the film and can create a mark. The image "print" areas become more durable after heat of fusion during thermal imaging.

Roll Handling and Storage

Rolls should be stored suspended or placed on rounded padded surface. Avoid setting on floor and other flat surfaces. Lift rolls through core to avoid damage to outer layers of film. Either use as wide of a sling as possible to lift the roll or utilize a boom that exceeds the width of the core to avoid pressure points. Avoid clamp trucks.

Treatment: Conventional UV or WB Printing and Coating

The dyne level of Platinum Thermal™ is adequate for surface printing and backside adhesive coating. This provides more flexibility for the converters and eliminates any blocking or sticking issues that might occur prior to PS laminating or converting.

When completing a tape adhesion test, the film will show adhesion bond to destruct, and the film will tear in the z direction. This is to be expected based on the design of the Platinum Thermal™.

Hot melt Adhesives

When laminating with hot melt adhesives, as with any polyolefin material, low molecular weight oils may migrate into the film and may cause slight swelling or curling. There are barrier coatings and various adhesives that can improve this issue. We are open to reviewing the applications and providing guidance if needed.

Die Cutting

Paper die cutting tools are not suggested for Platinum Thermal™. Paper die blades result in tearing, rough cuts, poor dispensing, and potential delamination of Platinum Thermal™ film. A die designed for Platinum Thermal™ film is suggested. For the specific Platinum Thermal™ film construction, the best converting practice is to always work with your die supplier for, recommendations regarding blade material type, hardness, cutting angles, and bevel. This practice will insure label size accuracy and result in optimum matrix stripping and label dispensing performance.

FDA Compliance

Label-Lyte Platinum Thermal is compliant for Direct and Indirect Food Contact under FDA's Food Types and Conditions of Use that are set forth in 21 C.F.R. § 176.170(c), Tables 1 and 2.