MacDermid Printing Solutions

# Tech Tip 21

## LPR Developing Rolls for LAVA

## Care and Handling of LPR Developing Rolls for Use in MacDermid LAVA Thermal Processing Systems

MacDermid's LPR developing rolls are tough and durable materials packaged to withstand the wear and tear of a typical manufacturing site. However, as with any other manufacturing material, LPR rolls should be handled with care and stored properly to ensure that the material properties required for an application are retained. In general, MacDermid Printing Solutions recommends that Good Manufacturing Practices (GMP) be utilized when handling LPR developing rolls. Specific recommendations by MacDermid follow. When proper storage and handling practices are followed, there is no shelf life limit to LPR materials.

### SITE LOADING AND UNLOADING

All LPR developing rolls are delivered in a protective wrap. A forklift or front end loader fitted with a tapered pole is recommended for loading and unloading non-woven rolls. The pole should be long enough to extend at least 2/3 of the way into the roll core to avoid the possibility of buckling or breaking the core. In some cases, non-woven rolls may be packaged on pallets or in boxes. Good forklift handling practices apply to these palletized materials.

### SITE HANDLING

LPR Developing rolls should be lifted off of the ground when moving. Dragging rolls is not recommended. It is recommended that LPR material be staged in the processing areas 24 to 72 hours prior to processing (unpackaged if possible) to allow the media to acclimate to the process area temperature and RH conditions. Care should be exercised such that the LPR rolls be protected from all sources of contamination, including oil, grease, dirt, and water.

### ON-SITE STORAGE

During storage at your facility, LPR rolls should be protected from moisture, direct sunlight, snow, and vandalism. Therefore, MacDermid LPR products should always be stored indoors, under proper covering. It is preferred that the media be stored in a climate controlled environment where possible. The protective wrapping should not be removed until the non-woven is ready to be staged in the processing area. Vertical storage should be avoided where possible. Care should be exercised during roll goods stacking to limit the height and to provide adequate chocking.

## ULTRAVIOLET LIGHT EXPOSURE OF MACDERMID LPR DEVELOPING ROLLS

When left exposed to ultraviolet light, all developing rolls slowly degrade, losing strength in the process. It is highly recommended not to expose LPR developing rolls to direct sunlight prior to use.

## PROTECTING MACDERMID LPR DEVELOPING ROLLS FROM MOISTURE AND WATER

LPR developing rolls readily absorb moisture, which can effect a dimensional change to the product. As a result, you may experience a loosening of the package as RH increases in the storage environment. Conversely, low humidity conditions can tighten the package formation and may cause the product to shrink in both the machine and cross direction. Controlling the humidity during storage will minimize dimensional changes. Protective covering on the developing rolls should not be removed until staging in the processing area.

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