



Tech Tip 23

LAVA Filter Media Disposal

Filter cartridges are used in the 2530 or 4260 LAVA Thermal Flexographic Plate Processing System to remove organic contaminants from the exhaust air prior to recirculation or release. These filter media cartridges are typically classified as a non-RCRA item for disposal. A waste characterization analysis shows the material to be landfillable as special waste when used in the prescribed manner with LAVA thermal processing equipment. MacDermid recommends that you verify with your local and state regulatory agencies for final landfilling authorization.

As an alternative to landfilling, MacDermid has established a filter media waste-to-energy (WTE) program with Ashland Environmental Services.

Getting Started

Contact your local Ashland Environmental Services representative. You may need to provide information such as an MSDS or process description on the material so it can be verified with any local and state regulations that the material is non-RCRA and non-DOT regulated material.

An Ashland representative will complete a Waste Profile Sheet that lists the material and shipment address for your signature. Once the Waste Profile Sheet is approved and the material designated for disposal, you will be provided pricing confirmation.

Filter Disposal

The filter media cartridges should be replaced in the unit every (3-6) months, depending upon machine usage rates. The required Personal Protective Equipment (PPE) below should be used to perform filter media change out:

- Nitrile gloves
- Tyvek sleeves
- Safety glasses
- Steel toe safety shoes

Used Filter Media Disposal Instructions

1. Turn off the hot roller and allow the air/ventilation to continue in unit for thirty minutes before filter box is opened. If the machine has been off for an extended period of time, turn on the air circulation for 30 minutes before opening the filter box.
2. While wearing nitrile gloves, tyvek sleeves, safety glasses, and safety shoes, remove the used filter media cartridge from unit and place into two (2) heavy duty plastic bags (double bagged). Tie or seal bags to prevent leakage of carbon pellets or condensate. If the media cartridge is losing carbon pellets, the pellets must be scooped up and placed into the plastic bag along with the cartridge casing.
3. Remove a new filter media cartridge from its container and place in the filter unit.



4. Place double-bagged used filter media cartridge into the corrugated container that the new filter media cartridge was removed from. The corrugated container holds two filter media cartridges. Ensure there is no mixing of used and new media cartridges in the same box.
5. Close and seal the corrugated container. Label the box as "Waste Filter Media." Repeat the procedure for each used filter cartridges.
6. Place and secure the boxes onto a pallet for shipping.
7. When pallet is full/ready for pick up call Ashland Environmental Services to schedule a pickup.

Scheduling a Pickup

Contact your Ashland Environmental Services office. Ashland will provide you with all appropriate shipping papers and labels for waste disposal.

Shipping Guidelines

Filters need to be stretch wrapped and strapped to a pallet for secure shipment. The non-RCRA label and shipping address found on the Waste Profile Sheet, both provided by Ashland, will need to be placed on the pallet to identify the material. When the driver arrives, sign the shipping papers and keep a copy for your records.

