ChemControl Ultra and Ultra Plus for Hard-to-Hold Products

Background

Avery Dennison ChemControl Ultra and Ultra Plus products are opaque, high barrier, chemical-resistant flexible packaging laminates suitable for high quality surface printing, excellent pouch manufacturing and product resistance. The materials are designed with a durable print surface, a foil layer for barrier and contain proprietary inner sealant materials for excellent seal formation and pouch performance. Avery Dennison ChemControl products have optimal rigidity for pouch manufacturing and handling.

ChemControl Ultra (spec #54025) - 48g PET / White PE / Al foil / adhesive / sealant

ChemControl Ultra Plus (spec #54026) - 48g PET / White PE / Al foil / adhesive / sealant

End Use Applications

Ultra and Ultra Plus products are designed for packaging hard-to-hold products such as personal care, automotive, lubrication, cleaning and other aggressive liquids and gels. Ultra Plus is designed for premium performance with the most aggressive chemicals.

ChemControl Ultra	ChemControl Ultra Plus
> Facial wipes	> Facial wipes with essential oils
> Hand cleaners	> Antifungal foot cream
> Shampoo and conditioners for treated hair	> Analgesic cream
> Nail polish remover	> Sunscreen
	> Iodine

Printing Recommendations

ChemControl products have a durable surface that is topcoated for excellent ink anchorage with UV and water-based flexo inks.

- The printed surface of the package must be over varnished to protect the ink and pouch surface from processing damage
- Proactively checking and maintaining UV lamps is recommended to ensure the material is receiving proper light exposure to promote full ink anchorage
- Higher airflow rates in the dryers will help reduce drying times with water-based inks

Inks and Over Varnishes

Heat resistant film inks and varnishes designed for flex pack applications are strongly recommended. The print surface of flex pack materials will be exposed to temperatures up to 375F during pouching operations and inks and varnishes need to withstand these temperatures.

- Varnishes must be selected for target COF as required by the packer. Contact your ink supplier to verify the fit for use
- The printed surface will come into contact with the interior sealant material when wound into a roll after printing. Inks and varnishes need to be properly chosen and cured to avoid affecting the sealability of the material
- The odor of the cured inks and varnishes also needs to be considered as the odor can transfer to the sealant film and ultimately into the finished pouch

Finishing

The printed roll is processed through a form-fill-seal (FFS) machine to create the finished pouch.

- The printed roll contains the front and back of the pouch
- The FFS machine folds, seals, fills, closes and cuts the material into individual pouches