

Value-added process provides packaging with long-lasting barrier-resistant properties that extend shelflife of luxury cosmetics

n effective low-cost barrier for increasing the stability and shelf-life of cosmetic packaging used for sensitive, solvent, and water-based lipstick, eyeshadow and blush products is created by E-BEAM Services, Inc. to replace the need to obtain expensive, specially engineered materials.

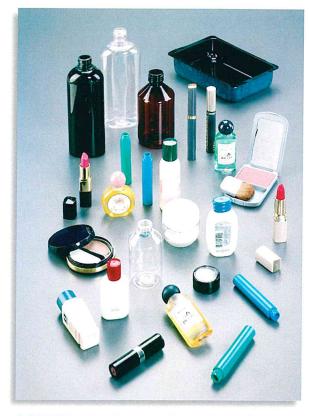
Thermoplastic molded containers and assemblies for lipsticks, compacts, jars and bottles are enhanced by E-BEAM Services in a precision-controlled cross-linking process. During the procedure, cosmetic containers and components receive a high-energy treatment that strengthens the internal polymer structure to form a permanently altered threedimensional molecular "link" matrix. After treatment, the package provides a moisture and oxygen protective barrier property with improved resistance to oils, petroleum, and solvents.

In addition to enhanced barrier properties, the cross-linked

process provides additional performance enhancements that include: increased tensile strength; increased impact resistance; improved resistance to slow crack growth, (SCG) and reduced rapid crack propagation (RCP).

The FDA views crosslinked plastics as unchanged and unadulterated. No physical change is made either to the resin or the finished package, and no special requirements are needed in the molding process.

E-BEAM Services meets sensiti
the need of HBA marketers for fast-to-market
turnaround schedules with no
cure or dwell time requirements.
Treated, cross-linked packaging is
ready to ship upon completion of



E-BEAM Services, Inc. provides an innovative, cost-effective treatment process for transforming relatively inexpensive molded plastic packages into high performance barrier protection for sensitive, solvent, and water based cosmetics.

the process; and at the same time, the packaging material is sterilized.



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