

**SPECIALTY ENGINEERED MATERIALS
SPECIALTY PACKAGING SOLUTIONS**

**CHEMICALLY COMPATIBLE
TPES FOR COSMETIC
PACKAGING**



Functionality and differentiation are key when designing cosmetic packaging. Chemical compatibility of the packaging materials is equally important. Without compatibility, your packaging can discolor, etch, crack or delaminate when in direct contact with cosmetic ingredients. PolyOne's chemically compatible Versaflex™ PKG thermoplastic elastomers provide a wide range of tactile finishes and surface textures and are REACH SVHC compliant. In addition, they process easily on standard injection molding machines and can be overmolded to simplify your production process.

	VERSAFLEX PKG 4345, 4355, 4365	VERSAFLEX PKG 4465	VERSAFLEX PKG 4570	VERSAFLEX PKG 4665
Chemical Compatibility	Soaps, low-cost solution for non-polar oils	Soaps, some oils	Polar & non-polar oils, non-polar solvents	Non-polar oils (abrasion resistant)
Regulatory Compliance*	REACH SVHC, FDA 21 CFR EU 10/2011	REACH SVHC & FDA 21 CFR	REACH SVHC & FDA CFR	REACH SVHC & FDA CFR
Hardness	45A, 55A, 65A	65A	70A	65A
Overmolded Substrate	Polypropylene	Polypropylene	Polycarbonate ABS PC/ABS	Polycarbonate ABS PC/ABS
Color	Translucent	Translucent	Natural	Natural

* Please contact PolyOne for additional information



HOW CHEMICALLY COMPATIBLE VERSAFLEX PKG TPEs MAKE THE DIFFERENCE IN COSMETIC PACKAGING

Chemical compatibility – Versaflex PKG TPEs do not discolor, etch, crack or delaminate when in contact with most soaps, lotions, oils, surfactants and solvents found in cosmetics.

REACH SVHC compliance – Our chemically compatible grades are compositionally compliant with REACH SVHC and FDA 21 CFR*.

Wide range of tactile finishes – Versaflex PKG materials enable you to develop a wide range of finishes such as silky, smooth, tacky and grippy.

Ability to add surface texture – Our injection molded TPEs are easily processed in commonly used, complex molds. Our materials allow you to add surface texture by bead blasting or chemically texturing the mold.

Good processability – Cycle times for injection molded TPEs are typically faster than alternative materials, resulting in reduced costs with chemical compatibility performance.

Simpler production process – Overmolding Versaflex PKG TPEs is an effective method for simplifying a two-step process into a single step.

To learn more, please visit polyone.com
or call **+1.866.POLYONE (+1.866.765.9663)**.

* Please contact PolyOne for additional information

www.polyone.com

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