Versaflex™ HC Thermoplastic Elastomers (TPEs)

HAI Prevention Has an Ally

Don't let your medical devices fall victim to aggressive disinfectant protocols.

Are your medical devices delaminating, cracking or losing their resilience after exposure to more frequent hospital disinfection aimed at reducing Hospital Acquired Infections (HAIs)? Your devices now have a new ally with Versaflex™ HC TPEs (thermoplastic elastomer) for medical overmolding.

These TPE material options can help you create long-lasting products that resist disinfectants used to advance patient safety. PolyOne has developed these specialty materials to resist the disinfectants used in HAI prevention while improving the useful life and tactile performance of medical devices.

Versaflex HC TPE for overmolded medical devices offers enhanced resistance to commonly used disinfectants and antiseptic cleaners. Our new TPEs also enhance ergonomics by adding a soft touch and improved grip. Designed for two-shot injection molding, the materials are compatible with rigid PVC, copolyesters, all PC alloys, ABS, TPUs and PEI substrates. Typical applications include device housings for hand-held scanners, patient monitors, infusion pumps, defibrillators, reusable surgical devices and other durable medical products.

VERSAFLEX HC TPES FOR OVERMOLDED MEDICAL DEVICES PROVIDE:

- Resistance to common disinfectants and other chemicals
- Excellent bonding to engineering thermoplastics
- Customization in molding to achieve desired haptics (touch and feel)
- USP VI & ISO10993 rated solutions
- Ergonomic design freedom

PolyOne™

AVERAGE PEEL STRENGTH

Substrate	Versaflex™ HC 1348	Versaflex™ HC 1365	Versaflex™ OM 1040X	Versaflex™ OM 3060
PC	12–20	12–20	12	15
PC/ABS	15–18	15–20	12–15	12–18
PC/PET	15	13–20	ND	ND
ABS	17–25	17–25	14	10–15
COPE	15	12–17	13	12–15
PP	NA	NA	13	14–18

Notes: NA=No adhesion to <10pli, ND=No Data

Properties shown are typical values and are not intended as product specifications. All properties were measured using natural product unless otherwise specified. For some products, the black properties will differ slightly from the natural version—refer to product Technical Data Sheet for specific product properties. The test methods used are modifications of the ASTM/ISO procedures—refer to product Technical Data Sheet for specific testing parameters. All tests are conducted on injection molded samples.

* Please refer to technical data sheet for complete information.

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