



mediprene®

Medical Thermoplastic Elastomers

Medical Valve

- PVC, silicone and latex free
- Flexible
- Range of hardnesses to suit application
- Translucent and highly transparent grades
- Good sealing performance
- Representative Mediprene® grades have passed cytotoxicity tests according to ISO 10993-5 and biocompatibility tests according to USP Class VI
- Production site accredited to ISO 13485
- 100% Recyclable
- Can be sterilized with gamma, EtO and steam



A special Mediprene® thermoplastic elastomer (TPE) compound was developed to fulfil all the stringent demands for this medical valve. Key requirements were that the valve is easy to open and close for patients, including the elderly and disabled. The material needed a high level of transparency to allow for good visibility and it was essential that the valve does not leak whilst being used.

As the product consists of both thin and thick parts, the excellent viscosity of the Mediprene® material was critical to the success of this application. Mediprene® TPEs provide good resealability and offer excellent resistance to many fluids used in the health care environment. The soft-touch appeal ensures patient comfort and easy colourability allows for product differentiation.

Many medical devices are sterilized prior to use, sometimes several times during their lifetime. Therefore it is essential that the materials used retain their properties after numerous sterilizations. Mediprene® materials can be sterilized with gamma, steam and EtO and are completely synthetic and latex free, thereby minimizing allergy risks.