

Medical Plastics



WE KNOW POLYMERS - WE KNOW TESTING

ExcelPlas has worked on numerous medical plastic products.

We work with Australia's biomedical device companies to test and develop new materials and to provide QA testing of their manufacturing processes for medical implants. We test medical implants based on new technologies such as 3D printing where sintering and consolidation is important for structural integrity. This can speed up the development and test phase for implant design, leading to customised implants individually tailored for a patient's unique circumstances such as for facial reconstruction and chest reconstruction.

We also test medical polymers and medical plastics for the effect of gamma sterilization and ethylene oxide sterilization that can lead to property degradation and yellowing of certain polymers. ExcelPlas examine the retention of performance properties as a function of radiation dose to determine what effects the sterilization cycle has on the polymer properties.

We have tested many ex-planted medical products such as gastric lap bands and prolapse meshes to examine failure modes and degradation products.

Medical Device Testing

ExcelPlas has ISO/CEI 17025 standard for its testing activity and laboratory practices

ExcelPlas conducts polymer testing for some of Australia's largest medical device companies including Anatomic, Resmed, Inamed Health

Testing of Medical Devices and Polymers for Medical Application

Examples include materials used in cardiovascular, orthopaedic, surgical and drug delivery devices.

Disinfectant Compatibility Studies

Screening and validating hospital disinfectants/sanitizers for compatibility with hospital plastics such as PC, PC-ABS and HIPS is important to avoid stress cracking problems (ESC).

For Disinfectant Compatibility Studies we evaluate:

- polymer type
- contact time
- strain levels
- mode of application (spray v/s wipes)

ExcelPlas leads the way with digital communication with news blasts and news feeds in the industries and sectors in which it operates. eNewsletters and eAlerts are sent to its key customers weekly to be 'front of mind' for testing and analysis needs.

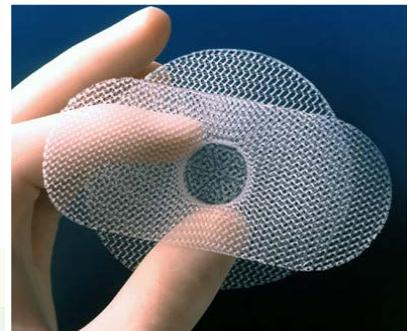
PRODUCT TESTING WEBSITES

<http://www.excelplas.com/>
<http://www.polymertesting.com.au/>
<http://www.polypipetesting.com.au/>
<http://www.uvtesting.com.au/>
<https://www.claddingtest.com/>
<https://www.minidredgers.com.au/>

DIGITAL MARKETING WEBSITES

<https://www.geosyntheticnews.com.au/>
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