



Mylar[®] PET *polyester film*
Only by DuPont Teijin Films

Mylar[®] PET polyester film for film capacitors in ISAD,
the Mild-Hybrid system of Continental TEMIC



Application Description

In hybrid cars, **Continental TEMIC's ISAD** system replaces the conventional starter and generator with one, electronically controlled, unit. The system converts braking energy into electricity, for use throughout the car, resulting in a significant gain in the fuel economy of the vehicle. An essential component of the highly efficient and compact power electronics of the ISAD system are metallised film capacitors, produced by **Arcotronics** in a special stacked capacitor manufacturing process.

Benefits of Mylar[®] in use

Ultra-thin Mylar[®] polyester film gives a high capacitance/volume ratio in the film capacitors, contributing to a compact design of the power electronics.

- **reliable electrical performance**
- **high capacitance/volume ratio**
- **resistance to vibration and heat**

DuPont Teijin Films Material selected and why

Mylar[®] polyester film is chosen by **Arcotronics** for their metallised stacked-film capacitors because of its outstanding dielectric properties. Being ultra-thin, Mylar[®] polyester film for capacitors provides a high capacitance per volume ratio. Self-healing characteristics and high pulse load capability of the metallised film, contribute to fulfill the demanding automotive life test requirements.

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Technical Information

Product Description

Mylar[®] polyester film for capacitors has got a low heat shrinkage. Especially for use in stacked chip capacitors, Mylar[®] ultra-thin film is produced with a high heat-stabilisation that improves the performance in the soldering process and functions reliably at temperature, in use.



This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DuPont Teijin Films makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Teijin Films Medical Caution Statement", H-50102-DTF.

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