

# TECHNOLOGIES TRANSFERRED FROM ISRO

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## POLYAMIDE FILM CASTING

(Technology Transferred to ABR Organics.)

This technology pertains to casting polyimide films of 1.5 meters length and 1.2 meters width with film thickness of 50+/- 7 microns and 25+/- 7 microns . The technology involves the design and fabrication of the equipment required for casting the film and the process details associated with it. The basic raw material used is a poly condensation product of aromatic diamine and an aromatic carboxylic acid anhydride. These polyimide films find a variety of applications in both aerospace and electrical industries as high performance thermal and electrical insulation materials such as air and spacecraft wiring insulation, multilayer insulation for thermal control systems of satellites, insulation of cryogenic tankages, flexible p.c. boards insulation for high power electric motors and generators, pressure sensitive tapes, insulations of transformers and capacitors, as light weight high performance thermal and electrical insulation in heavy electrical industry and as tapes for wrapping around rectangular copper conductors in high powered traction motors, aircraft motors and generators.

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