

ABSTRACT

PROCESS FOR PRODUCING AN ELECTRET, A FILM
ELECTRET, AND AN ELECTRET FILTER

A process for producing an electret which comprises
5 alternating at least two cycles of applying electric charges
to an article of interest and subsequently heating said
article. This process may be applied to a drawn or undrawn
film to produce a film electret, or it may be applied to a
woven or nonwoven fabric to produce a sheet of fiber
10 electret.

Also disclosed are a film electret that contains a
polar high-molecular weight compound and that provides a
TSDC curve having a homocharge peak temperature of at least
95°C and a heterocharge peak temperature of at least 80°C,
15 as well as an electret filter composed of fibers obtainable
by fibrillating said film of resin electret.

Figure 1