

Natural Fibre Based Engineered Bio-Degradable Flexible Composite

Background:

Generally natural leather production and processing involved a larger quantity of toxic synthetic chemicals. In addition, slaughtering of animal for the raw source of leather hide is another major challenge. Therefore, development of artificial leather is getting attention for the industries and researchers. Most of the artificial leathers composed of synthetic fibre (mostly polyester) based fabric, synthetic rubber coated with polyurethane or polyvinyl chloride. However, most of the chemicals used are petroleum based and synthesized from toxic chemical combinations.:

Technology Details:

- Natural fibre-based biodegradable leather like hide was developed at ICAR-NINFET:
- Plant fibre used to develop high quality flexible composite like hide:
- NINFET developed hide can be used to make purse, wallet, life style items, footwear items etc.:
- Perturbed by the issue of climate change and animal welfare, an alternative to animal leather that are ethical, environmentally beneficial and animal free.:
- A step forward practicing sustainable business by adopting natural fibre-based hide