



Name of the Technology: **Process for the development of polystyrene films**

Summary: CSIR-NPL has developed the matte finished polystyrene film with thickness of about 38 (± 2) μm by indigenous process. The transmission and absorption peaks of polystyrene films were characterized by FT-IR spectroscopy. It exhibits the clear peaks of standard polystyrene with good resolution. The homogeneity of the films has been checked thoroughly by measuring 5 different position of a 25 mm diameter area along with stability.

Applications: Used in rigid foodservice containers, CD cases, appliance housings, envelope windows, automobile body panel, PL, FT IR wave number calibration and many other products.

Advantages: Simple process, by using the same process it is possible to prepared uniform thickness and indigenous development and no requirement of costly and sophisticated equipments.

Choose the Readiness level of the Technology:

Idea	Concept Definition	Proof of Concept	Prototype	Lab Validation	Technology Development	Technology Demonstration	Technology Integrated	Market Launch

Related Patents: Patent No: Know how, Country: NA, Publication Date: NIL, Grant Date: NIL, **Year of Introduction:** 2018-19

Broad Area/Category: Fabrication, Process, polystyrene **User Industries:** Food, CD cases, appliance housings, automobile body panel, calibration.