

**FUNDAMENTAL MANUFACTURING PROCESSES**

Plastic Thermoforming

SCENE 1.

**PT07A, tape 630, 08:06:20-08:06:29**  
thermoforming operation

**NARRATION (VO) :**

THERMOFORMING IS THE PROCESS OF HEATING AND SHAPING PLASTIC SHEET AND FILM, AND IS ONE OF THE FASTEST-GROWING METHODS OF PROCESSING PLASTICS.

SCENE 2.

**PT08A**, archival footage of thermoforming  
**PT08B**, archival footage of thermoforming

**NARRATION (VO) :**

THERMOFORMING GREW IN POPULARITY DURING THE 1950'S WHEN HIGH QUALITY, LOW COST, THERMOFORMABLE PLASTIC SHEETS BECAME AVAILABLE FOR GENERAL USE.

SCENE 3.

**PT09A, tape 929, 12:22:00-12:22:35**  
zoom out, thermoforming operation  
**PT09B**, CGS: Packaging  
Food  
Medical  
Automotive  
Appliance  
Recreational  
Signage

**NARRATION (VO) :**

TODAY, THERMOFORMING PROCESSES ARE USED EXTENSIVELY TO PRODUCE BOTH LOW- AND HIGH-VOLUME PRODUCTION PRODUCTS FOR MANY INDUSTRIES, SUCH AS THE PACKAGING INDUSTRY, FOOD, MEDICAL, AUTOMOTIVE, APPLIANCE, RECREATIONAL, SIGNAGE, AND MANY MORE.

SCENE 4.

**PT10A, tape 920, 03:15:52-03:16:14**  
thermoforming operation

**NARRATION (VO) :**

THE BIGGEST ADVANTAGE OF THE THERMOFORMING

PROCESS IS ITS LOW COST TOOLING. FURTHERMORE,  
COMPARED TO OTHER PLASTIC PRODUCTION PROCESSES  
SUCH AS INJECTION MOLDING AND BLOW MOLDING,  
THERMOFORMING EQUIPMENT IS RELATIVELY  
INEXPENSIVE.

SCENE 5.

**PT11A, tape 926, 09:16:12-09:16:22**  
excess material being taken up on  
spool

**NARRATION (VO) :**

THE BIGGEST DISADVANTAGE TO THERMOFORMING IS  
THAT THE PROCESS CAN PRODUCE SUBSTANTIAL  
SCRAP.

--- FADE TO BLACK ---