

FUNDAMENTAL MANUFACTURING PROCESSES

Plastics Machining & Assembly

SCENE 1.

tape 724, 11:01:00-11:03:00

GRAPHIC: sme branding logo

tape 421, 15:20:03-15:20:12

part coming out of mold using
sprue puller

tape 630, 08:07:53-08:07:58

parts being thermoformed

tape 402, 08:11:57-08:12:07

parts being blow molded

NARRATION (VO):

PLASTIC PARTS ARE MOST COMMONLY PRODUCED BY

INJECTION MOLDING...,

THERMOFORMING...,

BLOW MOLDING,

AND OTHER PRODUCTION PROCESSES.

SCENE 2.

tape 415, 10:25:49-10:26:02

mold opening and plastic part
falling out

tape 641, 19:09:55-19:10:26

part being deflashed, hand
trimming

tape 640, 18:05:44-18:05:52

parts being cleaned

tape 632, 11:07:28-11:07:35

plastic parts being painted

tape 728, 15:26:35-15:26:41

part being turned

tape 725, 12:15:13-12:15:19

part being assembled

NARRATION (VO):

ONCE MOLDED OR FORMED, PARTS MAY REQUIRE

ADDITIONAL PROCESSING, SUCH AS DEFLASHING...,

CLEANING...,

OR DECORATING.

BUT PARTS MAY ALSO BE MACHINED...,

AND/OR ASSEMBLED WITH OTHER PARTS.

SCENE 3.

tape 725, 12:19:21-12:19:41

drilling of plastic part

CG, SUPER: Thermoplastics

Thermosets

NARRATION (VO):

MACHINING AND ASSEMBLY OPERATIONS CAN BE PERFORMED

ON PLASTIC PARTS FOR STRUCTURAL, AS WELL AS,

APPEARANCE PURPOSES. THESE OPERATIONS ARE USED ON

PARTS PRODUCED FROM EITHER THERMOPLASTICS,

OR THERMOSETS.

SCENE 4.

CG, SUPER: Thermoplastics

tape 392, 08:23:50-08:24:00

thermoplastic melted

NARRATION (VO):

THERMOPLASTICS UNDERGO A REVERSIBLE CHANGE FROM

SOLID TO LIQUID WHEN HEATED, AND CAN BE

CONTINUOUSLY REUSED.

SCENE 5.

CG, SUPER: Thermosets

tape 702, 16:14:53-16:15:03

thermoset part pulled from mold

NARRATION (VO) :

THERMOSETS, ON THE OTHER HAND, UNDERGO A CHEMICAL REACTION BETWEEN TWO REAGENTS WHEN HEATED, AND CANNOT BE RESOFTENED OR REUSED.

SCENE 6.

tape 724, 10:07:09-10:07:19

machining of plastic part

tape 718, 04:19:34-04:19:48

assembly of thermoplastic parts

NARRATION (VO) :

ALTHOUGH MACHINING..., AND ASSEMBLY PROCESSES CAN BE USED ON BOTH THERMOPLASTIC AND THERMOSET MATERIALS, OUR PRIMARY FOCUS WILL BE ON OPERATIONS PERFORMED ON THERMOPLASTICS.

--- FADE TO BLACK ---