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Your source for accurate impressions

Clinical step-by-step technique
for clear aligner impressions

3M™ Clarity™ Aligners Impressioning Technique Guide

Clinical step-by-step technique for clear aligner impressions

Prepare materials, equipment and review technique guidelines before beginning procedure.
Try in impression trays to ensure proper fit.

Procedure for Maxillary and Mandibular Impression Steps:



1. Load impression tray with 3M™ Imprint™ 4 Penta Heavy VPS Impression Material starting with posterior of impression. Alternately, load the tray with the 3M™ Garant™ Dispenser and 3M™ Imprint™ 4 Heavy VPS Impression Material.



2. Load the impression tray while keeping the tip immersed in material to avoid air bubbles and voids. **NOTE: 2:00 working time with 3M™ Imprint™ 4 Penta™ Heavy VPS Impression Material.**



3. Dispense 3M™ Imprint™ 4 Light VPS Impression Material on top of the 3M™ Imprint™ 4 Penta™ Heavy VPS Impression Material, making sure to keep the tip immersed in the material while dispensing.



4. Apply an even amount of 3M™ Imprint™ 4 Light VPS Impression Material in order to get a good detailed impression. **NOTE: 2 :00 working time with Imprint 4 Light material.**

Maxillary Impression Steps:



5. Seat the impression straight up to avoid any drags or scrapes. Make sure the handle is always aligned with the patient's midline. Stop short of occlusal tooth contact.



6. Always hold the impression tray in the pre-molar area for stability. **NOTE: 2:00 intra-oral set time. Keep in patient's mouth 2:00.**



7. Final maxillary impression with 3M™ Imprint™ 4 Penta™ Heavy and 3M™ Imprint™ 4 Light VPS Impression Material. Disinfect the impression and package for shipment for aligner fabrication.

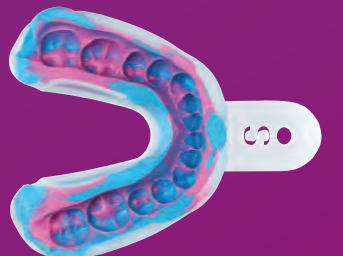
Mandibular Impression Steps:



5. Seat the impression straight down over arch while pulling out the patient's cheek. Make sure the handle is always aligned with the patient's midline. Stop short of occlusal tooth contact.



6. Hold the impression tray in the pre-molar area for stability. **NOTE: 2:00 intra-oral set time. Keep in patient's mouth 2:00.**



7. Final mandibular impression with 3M™ Imprint™ 4 Penta™ Heavy and 3M™ Imprint™ 4 Light VPS Impression Material. Disinfect the impression and package for shipment for aligner fabrication.

NEVER

- ask the patient to hold tray
- ask the patient to bite together
- have the patient bite on cotton rolls

Tips for success

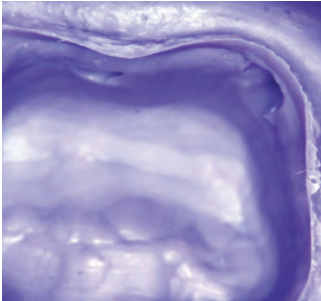

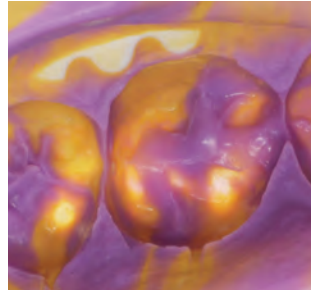
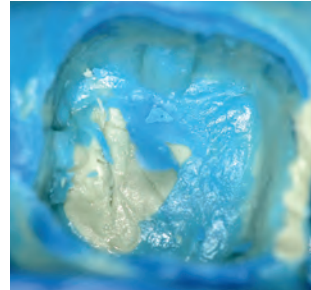
Insert the tray straight up. Once the tray is stabilized after seating, avoid any movements.

Patients should close their mouth as much as possible without biting down on the tray to avoid deformation of the mandible and, thus, errors in the impression. Do not try to correct the position of the tray after insertion.

Ensure the tray is large enough to capture the distal molars. 3M™ Imprint™ 4 VPS Impression Material has the fastest intra-oral setting time which means less time for unintended movements.



Impression troubleshooting

Problem	 <p>Voids on the margin</p>	 <p>Facial-oral flow defects</p>	 <p>Show-through of tray</p>	 <p>Poor bond between tray and wash material</p>
Causes	<ul style="list-style-type: none"> • Air trapped in Intra-Oral Syringe • Air trapped while filling impression tray 	<ul style="list-style-type: none"> • Exceeding working time • Tray movement after initial seating • Tray doesn't support flow of material 	<ul style="list-style-type: none"> • Tooth contact on sides or bottom of impression tray • Insufficient amount of material utilized • Missing dentition in posterior 	<ul style="list-style-type: none"> • Exceeding working time • Improper mix of material • Impression material was not bled prior to use
Solutions	<ul style="list-style-type: none"> • Properly bleed filled syringe • Keep mixing tip immersed in material when filling • Use adequate material 	<ul style="list-style-type: none"> • Follow manufacturer guidelines for working/setting time • Don't move tray following seating • Use proper tray selection 	<ul style="list-style-type: none"> • Identify correct tray size prior to taking impression • Use sufficient material • Check tray length prior to impression 	<ul style="list-style-type: none"> • Follow manufacturer suggested working/setting times • Use correct mix tips • Always bleed a small amount of material before starting

Ordering Information

Item # Product Information

3M™ Impression Tray Refill Pack — Upper

71615 10 Trays, Size Small (S), Upper

71616 10 Trays, Size Medium (M), Upper

71617 10 Trays, Size Large (L), Upper

3M™ Impression Tray Refill Pack — Lower

71618 10 Trays, Size Small (S), Lower

71619 10 Trays, Size Medium (M), Lower

71620 10 Trays, Size Large (L), Lower

Refills—Tray Materials

71484 **3M™ Imprint™ 4 Penta™ Heavy VPS Impression Material**
2 – 300ml base pastes; 2 – 60ml catalysts

71492 **3M™ Imprint™ 4 Heavy VPS Impression Material**
4 – 50ml cartridges; 10 – 3M™ Garant™ VPS Mixing
Tips–Green

Economy Packs — Tray Materials

71531 **3M™ Imprint™ 4 Heavy Economy Pack**
10 – 50ml cartridges

Refills — Wash Materials

71488 **3M™ Imprint™ 4 Light VPS Impression Material**
4 – 50ml cartridges; 5 – 3M™ Garant™ Mixing Tips–
Yellow; 5 – 3M™ Intra-Oral Syringes–Green

71487 **3M™ Imprint™ 4 Regular VPS Impression Material**
4 – 50ml cartridges; 5 – 3M™ Garant™ Mixing Tips–
Yellow; 5 – 3M™ Intra-Oral Syringes–Green

Item # Product Information

Accessories

77949 **3M™ Penta™ Mixing Tips – Red** (50 – mixing tips)

71452 **3M™ Garant™ VPS Mixing Tips – Yellow** (50 – mixing tips)

71462 **3M™ Garant™ VPS Intra-Oral Mixing Tips – Yellow**
(50 – intra-oral tips)

71450 **3M™ Garant™ VPS Mixing Tips – Green** (50 – mixing tips)

7307 **3M™ VPS Tray Adhesive Refill** (10 – 17 ml bottles)

3M™ Pentamix™ 3 Automatic Mixing Unit

77876 **3M™ Pentamix™ 3 Automatic Mixing Unit**
Universal Cartridge sold separately

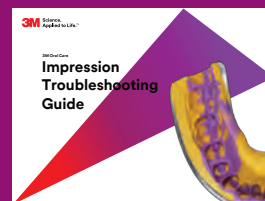
Cartridge for 3M™ Pentamix™ 3 Automatic Mixing Unit

77784 **3M™ Imprint™ 4 Heavy Cartridge**

Make better impressions.

Nothing compares to a good first impression. Experience the superior results for your patients by selecting impressioning materials from 3M Oral Care, the worldwide leader in impression materials.

The 3M Impression Trouble Shooting Guide identifies common problems and offers solutions. To get your FREE copy, download it now from our website — 3M.com/GreatImpressions.



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