

Impression Material Technique Guide



Your source for
Invisalign® impressions



Aligners

Imprint™ 3 VPS Impression Materials

Summary of Advantages

- **Best balance of clinical properties**, compared to other leading brands
- **Better memory than other leading brands** – it's less likely to distort upon removal
- **More hydrophilic than most leading VPS materials** – captures better detail in a moist environment
- **Tougher than many leading brands** – impressions resist tearing during removal

A much easier technique. An accurate impression. A better-fitting aligner.

If you're among the growing number of dentists worldwide prescribing Invisalign® aligners to straighten teeth, here's something you'll want to know. 3M ESPE, the worldwide leader in impressioning solutions, has developed products and simplified procedures that will help you achieve the best results.

Your initial impression is critical, because:

- a technician uses it to create a highly precise 3D digital model that becomes the basis for your entire orthodontic treatment plan;
- the digital model is used to custom-make a series of Invisalign aligners designed to move the patient's teeth incrementally, according to your prescribed plan.

Imprint™ 3 VPS Impression Materials provide accurate detail for a more effective treatment.

Ideal patient outcomes with Invisalign aligners rely on the accuracy of your impression. The consistency, performance and detail reproduction of Imprint 3 VPS materials from 3M ESPE help you:

- **get an accurate impression** on the first take, reducing the chance of costly retakes
- **capture the specific details** needed to produce better-fitting aligners for more comfortable and effective treatment
- **standardize your inventory** – the same Imprint 3 VPS materials you use for the Invisalign technique can also be used for crowns and bridges



Imprint™ 3 Impression Materials are available for both cartridge and Penta™ delivery

Get the best results, regardless of the technique you prefer.

Using the One-Step: Heavy Body with Light Body Technique illustrated on the following page allows you to get the detail you need in an Invisalign impression – WITHOUT the added step of syringing wash material around the teeth. This simpler, faster technique has important advantages over other popular impression-making techniques, as outlined below. No matter what Invisalign impression technique you use, the unique properties of Imprint 3 VPS materials will help you get the best results.

Alternative Technique	Advantages of using the One-Step: Heavy Body with Light Body Technique when making an Invisalign impression
Monophase	Improves your ability to read marginal detail by using a wash material with contrasting color
Hand Mixed Putty/Wash	Using an automix putty (ie Imprint 3 Penta Putty) rather than a hand mix putty: a) Ensures more consistent and predictable results (e.g., consistent working times and/or mix quality) b) Improves hygiene and reduces potential for incorporating contaminants into the impression
2-Step	Decreases risk of retakes and reduces the time needed to make impressions by eliminating a step

One-Step: Heavy Body with Light Body Technique

For best results in Invisalign impression taking, 3M ESPE recommends using this simple One-Step: Heavy Body with Light Body technique, along with Imprint 3 VPS Impression Materials.

MATERIAL & TRAY SELECTION



- Use a **REGULAR** setting VPS material to ensure you have enough working time. 3M ESPE recommends **Imprint™ 3 HB** tray material with **Imprint 3 RB wash** material.
- Use a **full arch tray** and apply adhesive if required. Try in tray to ensure tray reaches distal of terminal molars.

WASH MATERIAL LOADING



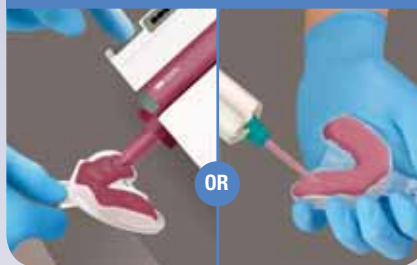
- Using a mix tip without an intraoral tip attached, dispense enough **Imprint 3 RB wash material on the top of the unset Imprint 3 HB tray material** to cover the occlusal surface of the entire arch. Two beads of regular body material is usually sufficient.
- **Keep mix tip submerged** in the Imprint 3 RB wash material to avoid trapping air bubbles.
- **Avoid penetrating the unset HB tray material** while syringing the wash material.

TRAY IMMOBILIZATION & REMOVAL



- **Do not allow patient to bite down** on tray. Immobilize the tray using **passive pressure**. Use a **timer**, and follow recommended setting time in mouth.
- **Remove tray** from mouth, then rinse, dry and disinfect impression before shipping.

TRAY LOADING – Penta™ or cartridge delivery



- Load the material using the **proper bleeding technique**.
- Dispense Imprint 3 HB material into tray, filling it to the height of the tray.
- Make sure the material around the arch is heavily loaded. **Overflow both ends** of tray to capture the distal of terminal molars.
- **Keep mix tip submerged** in HB material to avoid air bubbles.

TRAY INSERTION



- Insert tray **straight and evenly** into mouth.
- **Avoid rotation**.

BITE REGISTRATION



- Apply a layer of 3M™ ESPE™ Imprint™ Bite Material with a thickness of approximately 5mm occlusal-incisally to the entire lower arch.
- Have **patient close mouth** (final occlusion).
- **Disinfect** prior to shipping.

Invisalign Impression Tips

Common causes for retakes

- **Not capturing the distal of terminal molars.**
This is a common error. Prevent this by overflowing both ends of the tray. Seat impression tray evenly and avoid pulling tray forward.
- **Relining impressions.**
Do not reline impressions. It causes voids and wrinkles from tray shifting during seating or during material set. The relined portion may appear as a void with CT Scanning, so the impression may be returned for a retake.



Providing adequate detail of terminal molars is critical for Invisalign aligner production.

invisalign®

Align Technology has reviewed and approved the above technique guide for making Invisalign impressions.

Products designed for the way you like to work ...

Imprint™ 3 VPS Impression Materials are designed to increase your potential of making an accurate impression the first time. Choose from a wide range of viscosities and set/working times – in both cartridge and Penta™ deliveries.

More proven solutions brought to you by 3M ESPE, the worldwide leader in impression materials.



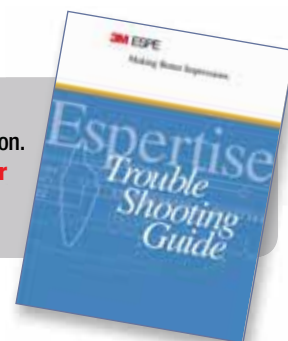
Ordering Information

Item #	Product Information
10770	Imprint™ 3 Heavy Body/Light Body Intro Kit Kit includes: 2 cartridges HB – 50ml; 1 cartridge RB – 50ml; 1 cartridge LB – 50ml; 10 cartridge mixing tips, green; 10 cartridge mixing tips, yellow; 10 intraoral tips, yellow; 1 VPS adhesive – 17ml
P310770	Imprint™ 3 Penta™ Heavy Body/Light Body Intro Kit Kit includes: 1 base paste HB – 300ml; 1 catalyst paste HB – 60ml; 1 Penta cartridge HB; 10 Penta mixing tips, red; 1 cartridge RB – 50ml; 1 cartridge LB – 50ml; 10 cartridge mixing tips, green; 10 cartridge mixing tips, yellow; 10 intraoral tips, yellow; 1 VPS adhesive – 17ml
10970	Imprint™ 3 Quick Step Heavy Body/Light Body Intro Kit Kit includes: 2 cartridges HB – 50ml; 1 cartridge RB – 50ml; 1 cartridge LB – 50ml; 10 cartridge mixing tips, green; 10 cartridge mixing tips, yellow; 10 intraoral tips, yellow; 1 VPS adhesive – 17ml
P310790	Imprint™ 3 Penta™ Quick Step Heavy Body/Light Body Intro Kit Kit includes: 1 base paste HB – 300ml; 1 catalyst paste HB – 60ml; 1 Penta cartridge HB; 10 Penta mixing tips, red; 1 cartridge RB – 50ml; 1 cartridge LB – 50ml; 10 cartridge mixing tips, green; 10 cartridge mixing tips, yellow; 10 intraoral tips, yellow; 1 VPS adhesive – 17ml
P36959	Imprint™ 3 Penta™ Putty/Regular Body Intro Kit Kit includes: 1 base paste Putty – 300ml; 1 catalyst paste Putty – 60ml; 1 Penta cartridge Putty; 10 Penta mixing tips, red; 1 cartridge RB – 50ml; 1 cartridge URB – 50ml; 10 cartridge mixing tips, green; 10 cartridge mixing tips, yellow; 10 intraoral tips, yellow; 1 VPS adhesive – 17ml
10771	Imprint™ 3 Heavy Body Refill 4 cartridges HB – 50ml; 10 mixing tips, green
10971	Imprint™ 3 Quick Step Heavy Body Refill 4 cartridges HB – 50ml; 10 mixing tips, green
10771PH	Imprint™ 3 Penta™ Heavy Body Refill 2 base paste – 300ml; 2 catalyst – 60ml

Item #	Product Information
10971PH	Imprint™ 3 Penta™ Quick Step Heavy Body Refill 2 base paste – 300ml; 2 catalyst – 60ml
10771PP	Imprint™ 3 Penta™ Putty Refill 2 base paste – 300ml; 2 catalyst – 60ml
10781	Imprint™ 3 Monophase (Medium Body) Refill 4 cartridges MB – 50ml; 10 cartridge mixing tips, green
36956	Imprint™ 3 Ultra-Regular Body Wash Refill 4 cartridges URB – 50ml; 20 mixing tips, yellow
36955	Imprint™ 3 Quick Step Ultra-Regular Body Wash Refill 4 cartridges URB – 50ml; 20 mixing tips, yellow
10779	Imprint™ 3 Regular Body Wash Refill 4 cartridges RB – 50ml; 20 mixing tips, yellow
10979	Imprint™ 3 Quick Step Regular Body Wash Refill 4 cartridges RB – 50ml; 20 mixing tips, yellow
10778	Imprint™ 3 Light Body Wash Refill 4 cartridges LB – 50ml; 20 mixing tips, yellow
10978	Imprint™ 3 Quick Step Light Body Wash Refill 4 cartridges LB – 50ml; 20 mixing tips, yellow
36850	Imprint™ Bite Registration Material Refill 4 cartridges – 50ml; 20 cartridge mixing tips, green
71512	50 Penta™ Mixing Tips, Red
71450	50 Cartridge Mixing Tips, Green
71452	50 Cartridge Mixing Tips, Yellow
71460	50 Cartridge Intraoral Tips, Bite
71462	50 Cartridge Intraoral Tips, Yellow

Make Better Impressions

Even the most experienced practitioner, using the best materials, can encounter difficulties when making an impression. 3M ESPE has taken its long history in developing and testing impression materials, and assembled the **Making Better Impressions Troubleshooting Guide**. It identifies common impression problems and offers solutions. To get your **FREE copy**, download it now from our website – or call Customer Care at 1-800-634-2249, ext. 1.



Customer Care Center: 1-800-634-2249 www.3MESPE.com/GreatImpressions

3M ESPE

Dental Products

3M Center
Building 275-2SE-03
St. Paul, MN 55144-1000
U.S.A.
1-800-634-2249

3M Canada

Post Office Box 5757
London, Ontario N6A 4T1
Canada
1-888-363-3685

Please recycle. Printed in U.S.A.
© 3M 2008. All rights reserved.
70-2009-3876-2

3M, ESPE, Espertise, Imprint and Penta are trademarks of 3M or 3M ESPE AG. Used under license in Canada. Aquasil and Invisalign are not trademarks of 3M.