

Vinyl Polysiloxane Impression Material Introductory System

Sistema introductorio del material de impresión de vinil polisiloxano

Sistema introdutório de Material para moldagem de vinil polissiloxano

비닐 폴리실록산 인상재 인트로 시스템

乙烯聚矽氧烷印模材料介紹系統

ក្រុមរោងអំពេជាការងារនៃក្រសួងពេទ្យការងារនគរបាល ពេជាការងារ

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ສំណើយដ្ឋានការងារ

2012-03
3M ESPE
Dental Products
44-0007-4861-4-A

ENGLISH

The Express™ impression materials, manufactured by 3M ESPE, are Vinyl Polysiloxane impression materials designed for taking precise crown and bridge, denture and bite registration impressions. The Express impression system offers the following viscosity materials and setting times:

- 7301 Low Viscosity (Light Body) Fast Set hydrophilic syringeable material for taking single unit impressions in the two-step putty/wash technique.

Oral Syringing	Oral Set Time
≤30 sec.	3.5 Min.

- 7302 Low Viscosity (Light Body) Regular Set hydrophilic syringeable material for multiple-unit impressions.

Oral Syringing	Oral Set Time
≤60 sec.*	5.0 Min.

- 7322 Medium Viscosity (Regular Body) Regular Set hydrophilic syringeable material for multiple-unit impressions.

Oral Syringing	Oral Set Time
≤60 sec.*	5.0 Min.

- After 15 seconds intraoral syringe filling time.

- After 30 seconds putty mixing time.

Total Working Time Mouth Removal Time

7301 Fast Set	≤23°C (73°F) = 60 sec.	3.5 min.
Low Viscosity	≤37°C (95°F) = 30 sec.	3.5 min.
7302 Regular Set	≤23°C (73°F) = 90 sec.	5.0 min.
Low Viscosity	≤37°C (95°F) = 60 sec.	5.0 min.
7322 Regular Set	≤23°C (73°F) = 90 sec.	5.0 min.
Medium Viscosity	≤37°C (95°F) = 60 sec.	5.0 min.
7312 STD Putty	≤23°C (73°F) = 90 sec.	5.0 min.

Once oral syringing begins; the tray MUST BE SEATED within 30 seconds for 7301 and within 60 seconds for 7302 and 7322. Once mixing is completed, the putty MUST BE SEATED within 60 seconds. Regardless of the amount of working time used, once the tray is seated, the 7301 requires a 3.5 minute set time and the 7302, 7322, and 7312 require a 5.0 minute set time. The automix system simultaneously mixes and delivers the Express syringeable material directly from the cartridge.

Loading and Operation

1. Place the Express light body regular set, Express regular body regular set or Express light body fast set impression material into the Garant™ dispensing. Close the cartridge retainer on the top of the dispense.

2. Dispense a small amount of impression material until both the base and catalyst emerge uniformly, attach a yellow mix tip to the cartridge.

3. For intraoral use of Express light body impression material, regular body, and light body fast set, attach a yellow intraoral tip to the yellow mix tip. **Note:** Use moderate pressure and push the blunt end of the intraoral tip into the mix tip. A click will be heard when

the model can be poured two hours after setting. Depending on type of procedure, all types of dental stone model materials may be used. The Express impressions are very stable and can be poured up to two weeks later.

13. Impressions should be shipped in packaging designed to prevent distortion and contamination.

Two Step Putty/Wash Technique

Recommended Materials: 7312 Putty and 7301, 7302, or 7322 syringeable.

Step 1 Tray Preparation/Preliminary Putty Impression

1. Select or prepare a rigid tray of sufficient size and wall height to accommodate 2-3mm thickness of impression material surrounding the teeth.

2. Brush a thin coat of tray adhesive on the tray and allow to air dry (minimum of five minutes).

3. Remove equal volumes of base and catalyst from the jars and mix the two materials with fingers until a homogeneous color is achieved (approximately 30 seconds).* The mixed putty is then placed into the adhesive coated tray.

*Caution: Certain gloves will inhibit the setting of putty when mixed.

Test gloves to confirm proper setting times. Wear vinyl gloves or use vinyl overliners. Then, remove gloves and thoroughly wash and dry hands to remove sources of potential contamination (e.g., glove residues and hand lotions).

4. Place a plastic spacer over the mixed putty and seat the tray into the mouth. Maneuver the tray in the mouth to create a 2-3mm space for the syringeable material. **Note:** The tray must be seated within 60 seconds after completion of putty mixing. Once seated, the tray can be left in the mouth until set (five minutes), then remove. To save time, the tray can be removed prior to complete set and allow the putty to bench-set for a minimum of 10 minutes.

5. Remove the spacers. Rinse and dry the putty impression. If 2mm space is not available throughout the impression, remove excess set putty with a bur or sharp knife until adequate space is achieved. Make sure putty is clean and dry.

6. Prepare the teeth, isolate and place retraction cord(s).

Step 2 Final Impression

7. Dispense syringeable material into the set putty impression in the tray. Fill the entire arch using a stirring motion and keeping the tip immersed in the material to avoid trapping air. **Note:** If the time between removing the putty impression from the mouth and the start of syringing is longer than 30 minutes, the surface of the putty should be roughened with a stiff brush or bur before proceeding to insure adequate bonding with syringeable material.

8. Remove the retraction cord(s) and inject the syringeable material around the clean, dry tooth preparation. Syringe with a stirring motion, keeping the tip immersed to avoid trapping air and ensuring adherence to and complete coverage of the prepared surface.

9. Reseat the tray, being careful to avoid contact of teeth with putty. **Note:** The tray must be seated within 60 seconds after oral syringing has begun with the low viscosity regular set and medium viscosity, 30 seconds with the low viscosity fast set. Immobilize the tray in the mouth without applying excessive pressure on the tray until the materials are completely set—five minutes for low viscosity regular set and medium viscosity and 3.5 minutes for low viscosity fast set.

10. Once set, apply downward pressure along the periphery of the tray to release the impression seal and remove the tray.

11. Visually inspect impression for evidence of defects or tears. Thoroughly examine and explore the sulcus of prepared teeth, as well as surrounding dentition for impression material remnants.

12. Immediately rinse the impression under water and blow dry.

13. Immerse the impression in a 2% glutaraldehyde disinfectant (Impresett™), or a dual or synergized quaternary disinfectant for the period of time recommended by the manufacturer for optimum results. Remove the impression, rinse it with water and dry the impression. This disinfection procedure will not affect the impression performance.

14. The model can be poured two hours after setting. Type 3 and Type 4 dental stone materials may be used. The Express impressions are very stable and can be poured up to two weeks later.

15. Impressions should be shipped in packaging designed to prevent distortion and contamination.

Impression Procedures

EXPRESS Simultaneous Putty/Wash Technique

Recommended Materials: 7312 Putty and 7302 or 7322 syringeable.

1. Select or prepare a rigid tray of sufficient size and wall height to accommodate 2-3mm thickness of impression material surrounding the teeth.

2. Brush a thin coat of 3M ESPE tray adhesive, manufactured by 3M ESPE, on the tray and allow to air dry (minimum of 5 minutes). Prepare the teeth, isolate and place retraction cord(s).

3. Dispense the express viscosity material directly into an intraoral tip of your choice. Alternatively, a 3M ESPE intraoral tip can be attached to the mixing tip for direct syringing.

4. The model can be poured two hours after setting. Type 3 and Type 4 dental stone materials may be used. The Express impressions are very stable and can be poured up to two weeks later.

5. Impressions should be shipped in packaging designed to prevent distortion and contamination.

Storage and Use:

1. Shelf life at room temperature for 7312 putty is 24 months. Shelf life at room temperature for 7301, 7302, and 7322 syringeable materials and the 7307 tray adhesive is 36 months. See outer package for expiry date.

2. The product is designed to be used at temperatures that have been kept at 23°C or 74°F and 20-80% relative humidity. These times are shortened due to higher temperatures of the product or prolonged, if the temperature of the product is lower.

3. Express impressions should be stored at dry room temperatures. Do not store in water or excessive humidity.

4. Avoid contaminating the putty or surface contacts with chemicals that could contaminate and inhibit the set (e.g. acrylic and methacrylic residues, latex rubber, and sulphur compounds).

5. Express impressions can be silver-plated or copper-plated.

6. Express materials cannot be mixed with or bonded to condensation-type silicones.

7. Disassemble the Garant dispenser and sterilize the dispenser handle and plunger separately at up to 135°C/275°F. For with commercial cleaning agents containing no strong organic solvents, such as alcohols. Do not use disinfectants.

8. Measure equal volumes of putty base and catalyst.

9. Simultaneously to removal of retraction cords and injection of syringeable material around the clean, dry tooth preparations, the assistant should mix* the putty base and catalyst with finger tips until a homogeneous color is achieved (30 seconds). The mixed putty is then placed into the adhesive coated tray. Make a large dimple-shaped indentation (approximately the size of three teeth) in the putty where the preparation site will be impressed. Fill the indentation with the syringeable material.

*Syringe with a stirring motion, keeping the tip immersed to avoid trapping air and ensuring adherence to and complete coverage of the prepared surfaces.

*Caution: Certain gloves will inhibit the setting of putty. Test gloves to confirm proper setting times. Wear vinyl gloves or use vinyl overliners.

10. Once seated, apply downward pressure along the periphery of the tray to release the impression seal and remove the tray.

11. Visually inspect impression for evidence of defects or tears. Thoroughly examine and explore the sulcus of prepared teeth, as well as surrounding dentition for impression material remnants.

12. Immediately rinse the impression under water and blow dry.

13. Immerse the impression in a 2% Glutaraldehyde disinfectant (Impresett™), or a dual or synergized Quaternary disinfectant for the period of time recommended by the manufacturer for optimum results. Remove the impression, rinse it with water and dry the impression. This disinfection procedure will not affect the impression performance.

14. The tray must be seated within 60 seconds after oral syringing has begun with the low viscosity regular set and medium viscosity and within 60 seconds after completion of mixing the putty.

15. Impressions should be shipped in packaging designed to prevent distortion and contamination.

Regulatory Specification Data:

- ANSI/ADA Specification #19

• International Standard ISO 4823

• Chemical Nature: Vinyl Polysiloxane

• Maximum Compression Set: <10%

• Recovery From Deformation: >99.0%

• Maximum Dimensional Change: 24 Hrs. <0.3%

• Strain in Compression: Putty: 1.0-3.0%; Syringeable: 2.0-6.0%

• Recommended Gypsum Pour Time: 2 hours-2 Weeks

• Metalizing Bath: AG, Cu

*After 15 seconds intraoral syringe filling time.

*After 30 seconds putty mixing time.

Total Working Time Mouth Removal Time

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