

TERMO-INJECTABLE MATERIALS

Polymers for removable and fixed Dentures

EVOLUTION TOWARDS DENTISTRY WITHOUT METAL



THERMO-INJECTABLE MATERIALS

MATERIALS

7 innovative thermoplastic polymers

APPLICATION

Removable and fixed metal free dentures

PROPPERTIES

High strength, elastic memory and monomer free

TECHNOLOGY

Materials molded in a micro-injector by temperature + pneumatic pressure

REMOVABLE DENTURES

APPLICATIONS



PARTIAL DENTURES



FULL DENTURES



PARTIAL DENTURES COMBINED WITH CHROMIUM



TEMPORARY DENTURES



AESTHETIC RETAINERS



OVERDENTURES



OCCLUSAL SPLINTS



PARTIAL DENTURE FRAMEWORKS



IMPLANT BAR FOR OVERDENTURES





BENEFITS

AESTHETICALLY PLEASING

Translucent inconspicuous retainers in partial dentures.



LIGHTWEIGHT

Allows for reduced thickness.



RESISTANT

Highly resistant to blows and falls.



BIOCOMPATIBLE

Monomer free.

Metal free.



LOW LIQUID ABSORPTION

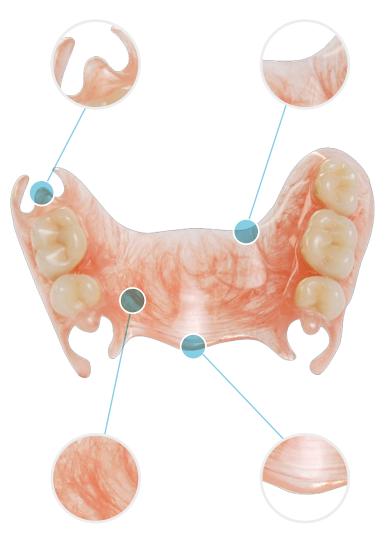
Impermeability to oral fluids.
They do not take odor.
Keep their original color
over time.

OCCLUSAL RESTS

Preventing dentures from being intruded.

HIGH TRANSLUCENCY

Translucent pink shades allow dual adaptation to teeth and gums



FREEDOM OF DESIGN

All types of designs in RPD's, including palatal bars and free ends.

SUPER EASY POLISHING AND BRIGHT SHINE

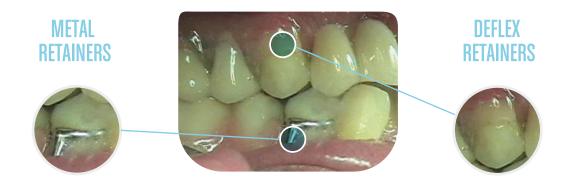
The dentures will not retain odor or loose color over time

Thermo-plastics technology continues to evolve, and applications in dentistry are expanded with increasingly surprising results.





TRANSLUCENT RETAINERS BLEND IN WITH TEETH AND GUMS.



EQUATION BETWEEN FLEXIBILITY AND RIGIDITY (IN RPD'S)



FLEXIBILITY ADVANTAGES

It favors an **effect "breaking strength"**, preventing the lever arm on the abutment teeth, preserving them better.

Flexibility and elastic memory of the retainer facilitates **insertion of the prosthesis** and an **excellent retentivity**, the main reason that allows a prosthesis to be comfortable.



ADVANTAGES OF STIFFNESS

Adds functionality allow distribution of the masticatory loads and making occlusal rests, preventing damage and tissue retraction.

It provides stability and design freedom, which is linked to patient comfort. A stable denture offers comfort, and that certain minimum level of stiffness is needed. A very flexible denture that is unstable when chewing, will no longer be comfortable and insecurity in the patient awake.

The high resistance of thermo-injectable Deflex allows to reduce thicknesses, improving comfort and phonetics.



MATERIALS FOR REMOVABLE DENTURES

FAVORITE FOR PARTIAL DENTURES

CLASSIC SR Semi-rigid polyamide



OPTIMAL BALANCE BETWEEN FLEXIBILITY AND STIFFNESS

CLASSIC SR presents an ideal balance between flexibility and stiffness. With an appropriate design we will get a denture that complies with the principles of support, fixation and stability.

OCCLUSAL RESTS

It was the first thermoplastic of injected denture that allowed the preparation of occlusal supports with the material itself.

HIGH BRIGHTNESS AND TRANSLUCENCY

The combination of brightness, color and translucence contributes to a more aesthetic denture, better adapted to the color of the patient's gums and teeth.













PINK



TRASNPARENT

FLUENCE SR Semi-rigid polyamide



SIMILAR OUALITY TO CLASSIC SR

FLUENCE SR offers a bit more elasticity and resistance than CLASSIC SR. It has a lower degree of translucency, but still very high. Polishing and gloss become virtually identical.

SLIGHTLY MORE FLEXIBLE

It maintains a recommended balance between flexibility and stiffness (low elasticity), allowing to offer aesthetically pleasing and functional partial dentures.

MORE FLUID INJECTION

Easy to inject; suitable for a wide range of injection molding machines.







MEDIUM PINK

TRANSPARENT

Aesthetically pleasing and functional RPD's, metal free, for temporary or permanent use





FAVORITE FOR PARTIAL DENTURES

SUPRA SF Semi-flexible polyamide



MEDIUM FLEXIBILITY

For clinical cases requiring greater elasticity without losing stability. For example, cases with diverging teeth pillars.

VERY HIGH FRACTURE RESISTANCE

Makes it possible to reduce thickness.

EXTREMELY FLUID INJECTION

Suitable for injection into all kinds of equipment.

SUPERIOR ELASTIC MEMORY

Compared with the other materials of similar flexibility available in the market, the yield strength (elastic memory) of **SUPRA SF** is superior, avoiding distortion and loss of functionality over time.





The recommended option when greater flexibility is needed



CHOSEN FOR COMPLETE DENTURES

M10 xR

Extra-rigid polymer

CB CHEMICAL BOND *



HIGH STIFFNESS AND STRENGTH

It enables very reduced thickness.

CHEMICAL BONDING WITH ACRYLIC

Possibility of relining and additions using conventional materials and techniques. Ideal for full dentures, overdentures and temporary dentures.

SUPER EASY POLISHING AND HIGH GLOSS

Economizes working time. Optimal end result.

ACRILATO FD

Injectable acrylic

CB CHEMICAL BOND *



MORE RESISTANT AND LIGHTWEIGHT FULL DENTURES THAN CONVENTIONAL ACRYLIC

High impact resistance. Accepts reduced thickness.

VERY LOW SHRINKAGE

Volume stability that makes it suitable for complete, occlusal splints and overdentures.

Hypoallergenic **

Why make a full dentures with Deflex thermo-injectable materials?

- They are hypo-allergenic
- Have greater resistance, therefore allow smaller thickness, lighter prosthesis, and very low fracture rate
 - They have a very low rate of volumetric shrinkage





PINK







SOFT PINK

MEDIUM PINK







MEDIUM TRANSPARENT PINK

Note: Materials CLASSIC SR, FLUENCE SR and SUPRA SF don't have chemical bonding. Repairs should effected by mechanical retention. (*) Apt for additions and relines using conventional materials and techniques.

(**) Meets the requirements of residual content of monomer established in EN ISO 20795-1_2013 (base polymers for dental prostheses)





AESTHETIC RETAINERS AND FRAMEWORKS. METAL FREE

ACETAL AC Injectable acetal



SUITABLE FOR PARTIAL DENTURES FRAMEWORKS AND AESTHETIC RETAINERS

Tooth-colored acetal resin.

STIFFNESS, AND HIGH SURFACE HARDNESS

Position it as a valid alternative for chromium-cobalt frameworks.

LOW LIQUID ABSORPTION:

It is not impregnated, does not change color.



DEFLEX PEEK

Injectable



HIGH PERFORMANCE POLYMER BASED ON PEEK (POLYETHER ETHER KETONE).

DEFLEX PEEK is specially suitable for infra-structure of bridges and crowns, but is also a very interesting option for the manufacture of removable partial frameworks, especially for its exceptional strength and biocompatible nature.

Its hardness and strength position it as an alternative that competes with the chromium-cobalt framework, with the differential of being a material free of metal.

GREAT HARDNESS AND HIGH WEAR RESISTANCE BIOCOMPATIBLE AND HYPO-ALLERGENIC ** LOW THERMAL CONDUCTIVITY 100% METAL FREE











Thermo-plastics replacing metal

(**) Meets the requirements of residual content of monomer established in EN ISO 20795-1_2013 (base polymers for dental prostheses)





MATERIALS AND APPLICATIONS GUIDE







Semi-rigid poliamyde



SUPRA SF Semi-flexible polyamide

- In order, from the most rigid to the most flexible.
- Select according to flexibility need of the denture.
- More rigid dentures are easier to polish and shine.



M10 xr Extra-rigid polymer



ACRILATO FD Injectable acrylic

• Both with chemical bond with the conventional Acrylic resin, and very low shrinkage.



- Injectable acetal with tooth-colored retainers.
- CLASSIC SR and FLUENCE SR can also be used to make translucent pink aesthetic retainers.







DEFLEX PEEK Injectable

- · ACETAL Ac is easy to inject and polish.
- DEFLEX PEEK offers even more resistance and stiffness than ACETAL Ac.

ELASTICITY CHART



CLASSIC SR

Reference value = 0



SUPRA SF

-63% **¥**



FLUENCE SR

-6% ¥



ACRILATO FD

-6% ¥



M10 xR

+44% 太



ACETAL AC

+81% 💸



DEFLEX PEEK

+125% 太







DEFLEX PEEK

Injectable

DEFLEX PEEK (Polyether ether ketone) is the most biocompatible thermoplastic for dental use nowadays, with high performance mechanical properties, enormous resistance to wear and a valuable combination of stiffness and elasticity that resembles bone. Free of metal, free of monomer, inert and virtually unchanged in the oral environment.

LESS ABRASIVE TO OPPOSING TEETH

PERFECT BALANCE OF HARDNESS AND ELASTICITY

HIGH PERFORMANCE POLYMER



COATABLE WITH COMPOSITE RESIN

BIOCOMPATIBLE. METAL FREE.

It's possible to make a bridge or crown with only the Deflex Injector, a special ring with supplement (provided by Deflex), a casting furnace and light curing oven.

Ceramic oven, CAD/CAM system or pantograph are no needed.

COMMERCIAL PRESENTATION

CONTENTS

Material pellets in bulk, 20g or 40g dose (packed in plastic tubes).



ADDITIONAL PRODUCTS

Empty aluminum tubes and caps must be purchased in order to inject it.

COLORS













APPLICATIONS



INFRA-STRUCTURE OF BRIDGE IN DEFLEX PEEK



BRIDGE COVERED WITH COMPOSITE

- Infra-structure bridges and crowns, coatable with
 - composite (1-2 intermediate elements)
- Anatomical structure of bridges and crowns (1-2 intermediate elements)
- Telescopic crowns and UEC crowns
- Implant bar for overdentures
- Super-implant supported structures
- Hybrid dentures
- RPD's frameworks (freedom of design)









BENEFITS

High resistance to mechanical wear and cracking

Less impact of chewing on dental implants

Tensile Modulus = 3.6 - 4.1 GPa.

Chemically inert, unalterable against acids and oral agents

Allows a fine polish, avoiding the adhesion of bacterial plaque

Allows to build lightweight and resistant structures

Coatable with composite resin

Rigidity similar to cortical bone

Good antirotational grip

Neutral flavor

High tenacity and resistance

Low thermal and galvanic conductivity

Waterproof (minimal liquid absorption)



INJECTION PARAMETERS

M10 xr	CLASSIC SR	FLUENCE sr	SUPRA SF	ACRILATO FD	ACETAL AC	DEFLEX PEEK
3 305°C +/-10°C	3 280°C +/- 10°C	275°C +/- 10°C	260°C +/- 10°C	3 265°C +/- 10°C	3 230°C +/- 5°C	*
1 5' min	Ö 15' min	15 ' min	12 ' min	1 5' min	Ö 15' min	*
7 1' min	♂ 1' min	T' min	T' min	7' min	7 1' min	*
6 kg/cm2 +/- 1 = 86 PSI +/- 14	6 kg/cm2 +/-1 = 86 PSI +/-14	4,5 kg/cm2 +/- 0,5 = 64 PSI +/-7	3,5 kg/cm2 + 1 = 50 PSI + 14	6 kg/cm2 +/- 1 = 86 PSI +/- 14	6 kg/cm2 +/- 1 = 86 PSI +/- 14	*

🜡 TEMPERATURE 🏻 INJECTION TIME 💍 HOLDING TIME 😂 AIR PRESSURE

Note: Injection parameters indicated for Deflex injection. For other injection machine consult the manufacturer or supplier of the equipment.

* Some injection parameters for **DEFLEX PEEK** depend on the applied model and injection technique. Refer complete technical indications for different techniques and applications.

CARTRIDGES

CODES AND DESCRIPTIONS



Thermo-injectable materials presented in the form of small granuls or tablets. Pre-dried, colored and packed in aluminum tubes, free of impurities.

Available in two different diameters: 22mm y 25mm

SMALL CARTRIDGES

suitable for very small RPD's and aesthetic retainers

MEDIUM CARTRIDGES

for conventional RPD's, frameworks and occlusal splints

LARGE CARTRIDGES

for full dentures, large RPD's and overdentures

Cartridges ready to be injected, except DEFLEX PEEK which comes in bulk and must be loaded into an aluminum tube Expiration Date: 24 months / For very large prosthesis where the cartridge is not large enough, consult for special refill cartridges. Check availability of materials, colors and complementary products in your country.

The measurement values are nominal.





ACO1 ACRILATO	22x85 - medium - Medium pink	24 G	FL01 FLUENCE	22x55 -small - Medium pink	13,7 G	SUO1	SUPRA	22x55 -small - Mediu	m pink 14 G
ACO2 ACRILATO	22x85 - medium - Transparent	24 G	FLO2 FLUENCE	22x55 - small - Transparent	13,7 G	SU03	SUPRA	22x85 - Medium - Medi	um Pink 21,3 G
ACO3 ACRILATO	22x120 - large - Medium pink	32.8 G	FLO3 FLUENCE	22x85 - medium - Medium Pink	20,5 G	SU05	SUPRA	22x120 - Large - Mediu	m Pink 29,6 G
ACO4 ACRILATO	22x120 - large - Transparent	32.8 G	FLO4 FLUENCE	22x85 - medium - Transparent	20,5 G	SU07	SUPRA	25x70 - medium - Medi	um Pink 22,3 G
ACO5 ACRILATO	25x70 - medium - Medium pink	24,5 G	FLO5 FLUENCE	22x120 - large - Medium Pink	27,3 G	SU09	SUPRA	25x90 - large - Mediu	m Pink 28 G
ACO6 ACRILATO	25x70 - medium - Transparent	24,5 G	FLO6 FLUENCE	22x120 - large - Transparent	27,3 G	SU11	SUPRA	25x50 - Small - Mediu	m Pink 14,8 G
ACO7 ACRILATO	25x90 - large - Medium pink	31,3 G	FLO7 FLUENCE	25x70 - medium - medium pink	20,8 G	ATOO	ACETAL	22 - small - A2	13 G (1 tablet)
ACO8 ACRILATO	25x90 - large - Transparent	31,3 G	FLO8 FLUENCE	25x70 - medium - Transparent	20,8 G	ATO1	ACETAL	22 - small - A3	13 G (1 tablet)
CLO1 CLASSIC	22x55 - small - Soft pink	13,7 G	FL09 FLUENCE	25x90 - large - Medium pink	26,5 G	ATO2	ACETAL	22 - small - A3,5	13 G (1 tablet)
CL25 CLASSIC	22x55 - small - Pale pink	13,7 G	FL10 FLUENCE	25x90 - large - Transparent	26,5 G	ATO3	ACETAL	22 - small - B3	13 G (1 tablet)
CL26 CLASSIC	22x55 - small - Medium pink	13,7 G	FL11 FLUENCE	25x50 - small - Medium pink	14 G	ATO4	ACETAL	22 - small - C3	13 G (1 tablet)
CLO3 CLASSIC	22x85 - small- Dark pink	13,7 G	FL12 FLUENCE	25x50 - small - Transparent	14 G	ATO5	ACETAL	22 - small - Med. Pink	13 G (1 tablet)
CLO4 CLASSIC	22x85 - small - Transparent	13,7 G	MI00 M10	22x55 - small - Soft pink	15,6 G	ATO6	ACETAL	22 - medium - A2	26 G (2 tablets)
CLO5 CLASSIC	22x85 - medium - Soft pink	19,9 G	MI01 M10	22x55 - small - Medium Pink	15,6 G	ATO7	ACETAL	22 - medium - A2	26 G (2 tablets)
CL27 CLASSIC	22x85 - medium - Pale pink	19,9 G	MI03 M10	22x55 - small - Trans. Soft pink	15,6 G	ATO8	ACETAL	22 - medium - A3,5	26 G (2 tablets)
CL28 CLASSIC	22x85 - medium - Medium pink	19,9 G	MI04 M10	22x55 - small - Transparent	15,6 G	ATO9	ACETAL	22 - medium - B3	26 G (2 tablets)
CLO7 CLASSIC	22x85 - medium - Dark pink	19,9 G	MI05 M10	22x85 - medium - Soft Pink	23,9 G	AT10	ACETAL	22 - medium - C3	26 G (2 tablets)
CLO8 CLASSIC	22x85 - medium - Transparent	19,9 G	MI06 M10	22x85 - medium - Medium pink	23,9 G	AT11	ACETAL	22 - med Med. pink	26 G (2 tablets)
CLO9 CLASSIC	22x120 - large - Soft pink	27.4 G	MI08 M10	22x85 - medium - Trans. Soft pink	23,9 G	AT12	ACETAL	25 - small - A2	26 G (2 tablets)
CL29 CLASSIC	22x120 - large - Pale pink	27.4 G	M109 M10	22x85 - medium - Transparent	23,9 G	AT13	ACETAL	25 - small - A3	17,3 G (1 tablet)
CL30 CLASSIC	22x120 - large - Medium pink	27.4 G	MI10 M10	22x120 - large - Soft pink	32,8 G	AT14	ACETAL	25 - small - A3,5	17,3 G (1 tablet)
CL11 CLASSIC	22x120 - large - Dark pink	27.4 G	MI11 M10	22x120 - large - Medium Pink	32,8 G	AT15	ACETAL	25 - small - B3	17,3 G (1 tablet)
CL12 CLASSIC	22x120 - large - Transparent	19,6 G	MI13 M10	22x120 - large - Trans. Soft pink	32,8 G	AT16	ACETAL	25 - small - C3	17,3 G (1 tablet)
CL13 CLASSIC	25x70 - medium - Soft pink	19,6 G	MI14 M10	22x120 - large - Transparent	32,8 G	AT17	ACETAL	25 - small - Med. Pink	17,3 G (1 tablet)
CL21 CLASSIC	25x70 - medium - Pale pink	19,6 G	MI15 M10	25x70 - Medium - Soft pink	24 G	AT18	ACETAL	25 - medium - A2	34,6 G (2 tablets)
CL23 CLASSIC	25x70 - medium - Medium pink	19,6 G	MI16 M10	25x70 - Medium - Medium Pink	24 G	AT19	ACETAL	25 - medium - A3	34,6 G (2 tablets)
CL15 CLASSIC	25x70 - medium - Dark pink	19,6 G	MI18 M10	25x70 - Medium - Trans. Soft pink	24 G	AT20	ACETAL	25 - medium - A3,5	34,6 G (2 tablets)
CL16 CLASSIC	25x70 - medium - Transparent	19,6 G	MI19 M10	25x70 - Medium - Transparent	24 G	AT21	ACETAL	25 - medium - B3	34,6 G (2 tablets)
CL17 CLASSIC	25x90 - large - Soft pink	25,8 G	MI20 M10	25x90 - Large - Soft Pink	30,8 G	AT22	ACETAL	25 - medium - C3	34,6 G (2 tablets)
CL22 CLASSIC	25x90 - large - Pale pink	25,8 G	MI21 M10	25x90 - Large - Medium pink	30,8 G	AT23	ACETAL	25 - med Med. Pink	34,6 G (2 tablets)
CL24 CLASSIC	25x90 - large - Medium Pink	25,8 G	MI23 M10	25x90 - Large - Trans. Soft pink	30,8 G	0807	DEFLEX PE	EK Beige	20 G
CL19 CLASSIC	25x90 - large - Dark pink	25.8 G	MI24 M10	25x90 - Large - Transparent	30,8 G	8020	DEFLEX PE	EK Beige	40 G
CL20 CLASSIC	25x90 - large - Transparent	25.8 G	MI35 M10	25x50 - Small - Soft pink	16,5 G	OS16	DEFLEX PE	EK Pink	20 G
CL31 CLASSIC	25x50 - medium - Soft pink	14.2 G	MI36 M10	25x50 - Small - Medium Pink	16,5 G	OS17	DEFLEX PE	EK Pink	40 G
CL32 CLASSIC	25x50 - medium - Medium Pink	14.2 G	MI37 M10	25x50 - Small - Trans. Soft pink	16,5 G				
CL33 CLASSIC	25x50 - medium - Pale pink	14.2 G	MI38 M10	25x50 - Small - Transparent	16,5 G				
CL34 CLASSIC	25x50 - medium - Dark pink	14.2 G							
CL35 CLASSIC	25x50 - medium - Transparent	14.2 G							



DEFLEX INJECTORS

EFFECTIVENESS AND PRACTICALITY















^{*} Applies to models MAD1300 and MAD1400 Ask for available injector models, diameter and voltage according to your country.





INJECTOR Model	MAD 1300	MAD 1400	MD 1500			
INJECTION MODE	AUTOMATIC	AUTOMATIC	SEMI-AUTOMATIC			
TYPE OF CYLINDER	Pneumatic					
TEMPERATURE	Digital - Programmable					
AIR PRESSURE	Adjustable					
INJECTION OVEN	Integrated					
PROGRAMS	7 pre-configured PRG + 7 free PRG		FREE PRG			
FLASK COVER	YES	YES	YES			
INJECTION BLOCK SENSOR	YES	NO	NO			
	1 1		3			
HEIGHT X WIDTH X DEPTH	62 CM X 15 CM X 30 CM 64 CM X 20 CM X 35 CM					
WEIGHT	22 KG. / 48.5 LB.					
VOLTAGE	220V OR 110V					
DIAMETER	22MM OR 25MM					
CE CERTIFICATION	YES	YES	NO			

COMPLEMENTARY PRODUCTS





LEARN MORE ABOUT OUR PRODUCTS



INJECTABLE MATERIALS

Removable & fixed dentures



















CAD/CAM **MATERIALS**

For milling of bridges and crowns





ZIRCONIA









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