



TSM Acetal Dental

Classificazione secondo la direttiva 93/42CEE
Classe II A CE 0546

From Pressing "TSM ACETAL DENTAL"

For almost 20 years acetal resins have been used in dentistry to develop a wide range of prosthetic solutions: aesthetic clasps on metallic frames, partial prostheses, removable bridges, post surgery space retainers, provisional bridges, supporters for provisional bridges, abutments, stump pivots, splints, active holding devices and so on.

The "TSM ACETAL DENTAL" is a thermoplastic technopolymer with a monomer-free crystalline structure and is a product of formaldehyde polymerization. Its characteristics are: high resistance to abrasion, excellent tensile and shock strength, high elastic memory, low thermal conductance and rigidity. Furthermore, it is neither allergenic, nor toxic. These features, coupled with remarkable aesthetic performance, make "TSM Acetal Dental" a good substitute for acrylic resins and metals in many prosthetic applications. The above-mentioned features remain stable under different operational conditions such as: exposure to a 4 - 9 PH range, chemicals, humidity, cyclically repeated stresses, etc.

It is important to underline that the characteristics of TSM Acetal Dental may be guaranteed only if such material is processed using special equipment, which in turn may guarantee a constant check of the melting temperature for the material, of softening times, injection and the ensuing cooling under constant pressure. In this regard, the company Pressing Dental was the first company to manufacture special automatic equipment for pressure-injection in dental laboratories.

Availing itself of the most advanced technologies, Pressing has produced TSM Acetal Dental in 20 different color shades, 17 of which are comparable with the "Vita" colour scale, and 3 pink.

T.S.M. Acetal Dental "Technology System Manufacturing"

Cod. 00549 Scala Colori "Tsm Acetal Dental"

Cod. 00550 TSM Acetal Dental Assortito (Gr. 1.150 + 1 scala colori)

Confezioni da gr. 500 cadauna:

Cod. 00551 A	Cod. 00556 B	Cod. 00561 C 1	Cod. 00565 D 2
Cod. 00552 A 1	Cod. 00557 B 1	Cod. 00562 C 2	Cod. 00566 D 3
Cod. 00553 A 2	Cod. 00558 B 2	Cod. 00563 C 3	Cod. 00567 D 4
Cod. 00554 A 3	Cod. 00559 B 3	Cod. 00564 C 4	Cod. 00568 F 1
Cod. 00555 A4	Cod. 00560 B4		Cod. 00569 F 2
			Cod. 00570 F 3

Pressing Dental Srl

Via Onesto Scavino, 4
Falciano (Zona industriale Rovereta)
47891 - Rep. di San Marino

Tel. dall'Italia
0549-909948 - FAX 0549-909958
From other countries
**378-909948 - FAX **378-909958



Il T.S.M. Acetal Dental underwent the following tests:

Citotoxicity test (EN 30093-part 5)

Cell vitality assessment by means of propidium iodide
 Cell vitality assessment by means of neutral red absorption

Genotoxicity test (EN 30093-part 5)

Mutagenicity assessment on Ames Typhimurium Salmonella
 Chromosomic aberration assessment
 Assessment of exchanges between chromatid brothers

Test di Anallergicità (ISO/DIS 10093-part 10)

Cutaneous irritation tests
 Maximum sensitisation test

Water absorption and solubility in water (ISO 10477)

Contrainte à la flèche conventionnelle
 (1,5 fois l'épaisseur de l'éprouvette) en MPa

Eprouvette	Résine Acrylique	Résine Acrylique + Kevlar	Résine Acrylique +Metal	TSM Acétal Dental
Moyenne N°5	74,3	74,7	78,2	81,6
Ecart Type	1,4	2,2	6,6	1,9
Minimum	71,1	71,7	71,8	78,3
Maximum	75,5	77,9	88,5	83,3

Contrainte à la rupture en Mpa

Eprouvette	Résine Acrylique	Résine Acrylique + Kevlar	Résine Acrylique+Metal	TSM Acétal Dental
1	73,7	/	Rupture résine	/
2	82,6	83,8	/	/
3	85,0	87,2	/	/
4	82,7	/	/	/
5	71,4	85,6	Rupture résine	/
Moyenne N°5	79,1	/	/	/
Ecart Type	6,1	/	/	/
Minimum	71,4	/	/	/
Maximum	85,0	/	/	/
n°d'eprouvettes rompues	5	3	2 Rupture résine	0

Module d'elasticité en MPa

Eprouvette	Résine Acrylique	Résine Acrylique + Kevlar	Résine Acrylique +Metal	TSM Acétal Dental
Moyenne N°5	2682	2719	2977	3340
Ecart Type	86	98	421	175
Minimum	2590	2648	2619	3064
Maximum	2775	2888	3512	3536

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Aesthetic claps



Advantages:

- Aesthetics
- Slight Elasticity
- Non abrasive

Space maintainer



Advantages:

- Aesthetic
- Functional
- Metal free
- Versatility of use

Uses:

Implantology - Ortodontics



Removable partial prosthesis, entirely made of TSM Acetal Dental



When a more agreeable aesthetics is needed, or in case of allergies.

Advantages:

- Aesthetic, comfortable, anallergico
- Specific weight lower than metal
- Lack of galvanic transmissions

Customised connections made of "TSM Acetal Dental"



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Post core



Advantages:

- Aesthetics
- Slight elasticity
- Low specific weight
- Reduction of stress due to load
- Lack of thermal conductivity
- Lack of galvanic transmissions

Individual healing cap



The only product with which it is possible to create a real individual healing cap, both as for colour and shape.

T.M.I. implant stump covered with TSM Acetal Dental



Advantages:

- Excellent fringe aesthetics
- Reduction of stress due to load
- Lack of thermal conductivity
- Lack of galvanic transmissions

Splint / bite



Advantages:

- Aesthetics
- Reduced size
- High mechanical resistance
- Excellent resistance to abrasion
- Lack of metal clasps

Orthodontic device



Advantages:

- Reduced size
- Acceptable aesthetics
- Active or passive, according to your needs

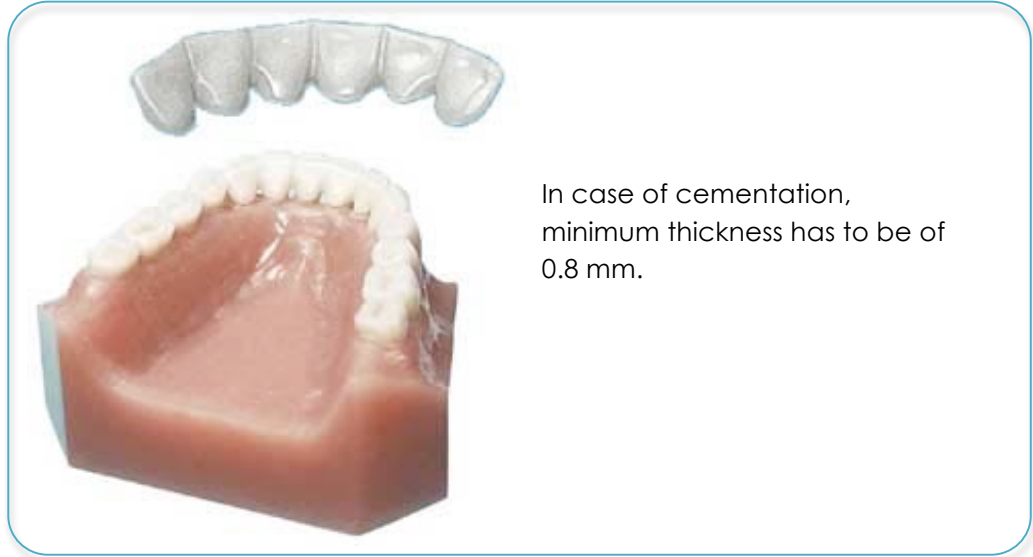
Gingival mask



Advantages:

- Excellent aesthetics
- Minimum hindrance
- Durability

Splint retainer



In case of cementation,
minimum thickness has to be of
0.8 mm.