Ap. 2026.04-rev.00

Ruthinium®
WE TAKE CARE OF YOUR SMILE

ONLY & BEAM

THE DISC IN COMPOSITE
DESIGNED FOR FULL-ARCH IMPLANT RESTORATION.

ruthinium.it

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THE INNOVATION OF IMPLANT DENTURE

Only represents the future of polymer engineering and advanced composite materials, meticulously developed for screw-retained fixed dentures. We are committed to excellence in monolithic dentures, achieved either through the use of a single high-quality material, Only, or through the chemical bonding of two structures, **Only-Beam,** using our exclusive cement.
This approach addresses at its root the recurring issues of adhesion and fracture that affect both the aesthetics and durability of dentures.
Our secondary, yet equally important goal is the optimization of laboratory workflows, providing autonomy and control at every stage of denture creation. Since 1999, we have been at the forefront of producing milling materials for CAD-CAM systems. Our deep understanding of material properties and future market trends has led us to specialize our research in acrylic-based composites. **The Only line is the result of these relentless efforts and reflects our commitment to achieving dental excellence.**

Photo by **Dentum Sevilla**

ONLY

POLYMETHYLMETHACRYLATE-BASED COMPOSITE FOR IMPLANT-SUPPORTED DENTURES FOR IMMEDIATE OR DELAYED LOADING TECHNIQUES.

Recommended for:

- Inlays / onlays
- Veneers
- Full arches, up to 14 units, with a maximum of two pontics, on implants or natural abutments
- Single anterior/posterior crowns

Implant denture disc for immediate loading, made of a medium leucite-content composite material, ensuring maximum aesthetics, exceptional ease of use, and above all, optimal preservation of the patient's remaining dentition.

PRODUCT	CODE
OY-T ONLY D98	7900120
OY-T ONLY D95	7900121
OY-T BEAM D98	7900122
OY-T BEAM D95	7900123

CHARACTERIZATION

It can be characterized using any composite available on the market. It is essential to follow the instructions provided by each individual manufacturer.

MECHANICAL PROPERTIES	VALUE	U.O.M.	STANDARD
Specific weight	1,20	g/cm³	DIN 53479
Elastic modulus	3700	Mpa	ISO 178:2019
Flexural strength at break (specimen 80 × 10 × 4 mm)	87,1	Mpa	ISO 178:2019
Flexural strain at break	3,5	%	ISO 178:2019
Flexural stress at break (maximum load)	122,4	Mpa	ISO 604:2008
Compressive strength (maximum load reached)	20,6	%	ISO 604:2008
Weight loss at 3000 cycles (abrasion)	145	mg	ASTM D4060:2019
WATER BEHAVIOR			
Water absorption (weight increase after 24 hours of immersion)	0,03	%	DIN53495

VITA CLASSICAL–ONLY SHADE COMPARISON TABLE

ONLY	VITA CLASSICAL A1-D4®
500	A1-B1
501	C1-D2
502	A2-A3-B3-D3
503	B2
504	C2
505	A3,5-A4
506	C3-C4
508	BLEACH
516	PINK

MD CE

Milling recommendations:

To ensure the integrity of the restorations during milling, it is essential to position them at least 4–5 mm from the outer edge of the disc. This precaution is crucial to prevent fractures caused by internal stresses.
During the nesting phase, it is equally important to design support thicknesses not exceeding 1.5 mm in order to protect the walls of the milled elements.
For superior precision milling, we recommend Ti NANO milling tools, specifically engineered to deliver outstanding performance.

Wet milling is not required.

ø 98 mm

STANDARD ATTACHMENT
DISC DIAMETER: 98
THICKNESS (mm): 14-18-22-28
AVAILABLE SHADES: 500-501-502-503-504-505-506-508-516

ø 95 mm

Z ATTACHMENT
DISC DIAMETER: 95
THICKNESS (mm): 16-20
AVAILABLE SHADES: 500-501-502-503-504-505-506-508-516

IT IS A HIGH-PRECISION COMPOSITE

Only is a composite with exceptional molecular density, meticulously engineered and designed for the fabrication of monolithic morphological dentures without the need for additional intermediate reinforcing structures.

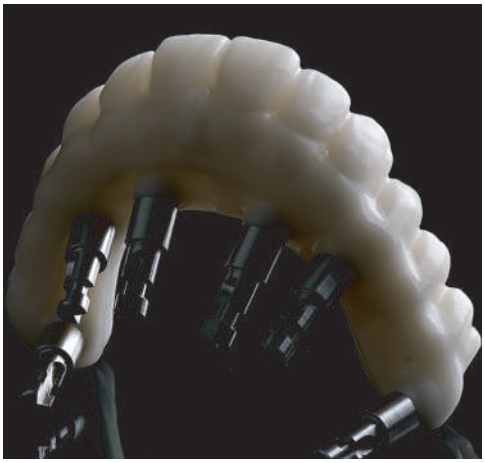
BEAM COMPOSITE FOR SUBSTRUCTURES.

It chemically bonds to **Only** restoring the structure to a monolithic condition.

From a new variant of **Only** comes the **Beam** version, a composite designed for the fabrication of primary structures, also acrylic-based and enriched with alumina. This allows chemical bonding to an aesthetic material of the same matrix through the use of the exclusive **G3™ bone cement.** Its proven mechanical and biological properties ensure excellent dissipation of masticatory loads and a favorable biological response of the soft tissues.

MECHANICAL PROPERTIES		
Specific weight	1.53 g/cm3	DIN 53479
Elastic modulus	4600 MpA	ASTM D790-03
Shore D hardness	96.8 ± 1.6	ASTM D2240
Roughness	2.32 ± 0.39	ISO 4288
Flexural stress at break	4.50 ± 0.13	ASTM D790-03
Flexural strength at break	72.1 ± 3.7	ASTM D790-03
Absorption	None. Hydrophobic	

Ø 98 mm

Ø 95 mm

STANDARD ATTACHMENT / "Z" ATTACHMENT
DISC DIAMETER: 98-95
THICKNESS (mm): 14-16-18