

High Impact Denture

High Performance Denture Materials



SprintRay High Impact Teeth and Base are new nanoceramic, biocompatible resins for removable denture bases and teeth formulated with NanoFusion™ – the same technology used in OnX Tough. High Impact Denture materials deliver outstanding durability and impact resistance, making them the go-to material for dentures.

WORK OF FRACTURE

Resistance to propagation of damage

SPRINTRAY HIGH IMPACT DENTURE BASE	1209 J/m ²
MILLED PMMA DENTURE BASE	1172 J/m ²
OTHER	218 J/m ²

FRACTURE RESISTANCE

Maximum stress intensity before crack propagation

SPRINTRAY HIGH IMPACT DENTURE BASE	2.82 MPa/m ^{1/2}
MILLED PMMA DENTURE BASE	2.50 MPa/m ^{1/2}
OTHER	1.14 MPa/m ^{1/2}

COFFEE STAINING

Change in L* A* B* colorimetric values

SPRINTRAY	2.41 ΔE*
MILLED PMMA DENTURE BASE	10.05 ΔE*
OTHER	8.84 ΔE*

WEAR RATE

Volume loss during 10-year wear simulation

SPRINTRAY HIGH IMPACT DENTURE BASE	0.686 mm ³
MILLED PMMA DENTURE BASE	0.808 mm ³
OTHER	0.746 mm ³

*Conducted by Loma Linda Center for Dental Research



KEY FEATURES

- ✓ Better strength, longevity, and durability vs competitor 3D printing and milled materials
- ✓ Deliver digital dentures in as few as 2 appointments
- ✓ Easy to polish and characterize

HIGH IMPACT BASE

Original Pink	1Kg	SRI-0202039
Original Meharry	1Kg	SRI-0202040
Dark Pink	1Kg	SRI-0202099

HIGH IMPACT TEETH

Bleach	500g	SRI-0202065
A1	500g	SRI-0202066
A2	500g	SRI-0202091
B1	500g	SRI-0202067

