

High Impact Denture

SprintRay EU High Impact Denture Base Resins



The SprintRay EU High Impact Denture solution provides dental professionals with a complete 3D printing ecosystem for the fast production of strong and durable digital dentures.

SprintRay EU High Impact Denture Base is a biocompatible resin with “high-impact” properties characterized by requirements such as low viscosity.

Combined with SprintRay EU Temporary Crown & Teeth, you can produce cost-effective and highly esthetic full dentures with outstanding durability and impact resistance.

WORK OF FRACTURE

Resistance to propagation of damage

SPRINTRAY EU HIGH IMPACT DENTURE BASE	1700 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 EU HIGH IMPACT DENTURE BASE	3.20 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 EU	2.5 ΔE
MILLED PMMA DENTURE BASE	10.05 ΔE*
OTHER	8.84 ΔE*

*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 with SprintRay Cloud Design Services
- ✓ Easy to polish and characterize

HIGH IMPACT BASE

Orange Pink	1 kg	SRE-1001311
Light Pink	1 kg	SRE-1001312
Deep Pink	1 kg	SRE-1001313
Light Pink B	1 kg	SRE-1001314
Natural Pink	1 kg	SRE-1001315

