

# Removable



PRODUCTS	ACRYLIC DENTURE	METAL PARTIAL	VALPLAST®
<b>Indications</b>	Upper and lower complete or immediate dentures	Removable partial Dentures, unilateral partials	Removable partial dentures, unilateral partials, full dentures
<b>Features /Benefits</b>	High impact Non-allergic Exceptional aesthetics Comfortable Precision fit	Biocompatible Ni/Be free Precision fit High tensile strength Custom fit Fracture resistance Guaranteed strength	Metal-free Durability Aesthetics clasp Comfort Tough yet flexible Minimal tissue irritation
<b>Preparation</b>	No tooth or tissue preparation needed	Some tooth / tissue preparation maybe needed for partials and unilateral dentures	Some tooth / tissue preparation maybe needed for partials and unilateral dentures
<b>Cementation</b>	Not required	Not required	Not required
<b>Composition</b>	Acrylic resin	Cast partial alloy cured with acrylic resin	Nylon base material
<b>Physical Properties</b>			
a. Specific gravity			1.04
b. 0.2% Yield strength		89,350 psi (616 MPa)	0.30%
c. Water absorption			20%
d. Flexural Modulus	408,000 psi		150-180 kg/mm <sup>2</sup>
e. Saturation			8kg/mm <sup>2</sup>
f. Young's modulus		124,000 psi (855 MPa)	
g. Tensile strength		8.3g/cc	10.5kg/mm <sup>2</sup>
h. Deflection	0.38 inches		8-10kg/mm <sup>2</sup>
i. Compressive strength	13,800 psi	428 VHN1	14.5 VHN
j. Bending strength		29x10 <sup>6</sup> psi	120-150kg/mm <sup>2</sup>
k. Vickers hardness	4.05 ± 0.90	4.5%	437°
l. Impact strength			
m. Processed softness			
n. Elongation			
<b>Proven Success in-mouth</b>	Acrylic dentures have been around for centuries	Cast partials dentures have been around for centuries	10+ years
<b>In-Lab Time</b>	5 days	10 days	10 days
<b>Other Products Offered</b>	IPS Empress®, Wol-Ceram® Lava™, Procera®, Sinfony®, Captek™, PFM, FCC, Implants.		

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