

Wieland BioPorta G PFM Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Gold Alloy , Platinum Alloy

Material Notes:

Gold-platinum ceramic alloy
Applications: inlays/onlays, crowns, short span bridges, long span bridges, telescopic and milling works, removable partials, ceramic veneering, acrylic veneering
Dental

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wieland-BioPorta-G-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	18.8 g/cc	0.679 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	200	200	HV5/30; after porcelain firing
	210	210	HV5/30; hardened
Tensile Strength, Yield	500 MPa @Strain 0.200 %	72500 psi @Strain 0.200 %	after porcelain firing
	560 MPa @Strain 0.200 %	81200 psi @Strain 0.200 %	hardened
Elongation at Break	3.0 %	3.0 %	after porcelain firing
	3.0 %	3.0 %	hardened
Modulus of Elasticity	103 GPa	14900 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.5 µm/m-°C	8.06 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	85.5 %	85.5 %	
Indium, In	0.30 %	0.30 %	
Iron, Fe	0.20 %	0.20 %	
Platinum, Pt	11.5 %	11.5 %	
Rhodium, Rh	0.50 %	0.50 %	

Component Elements Properties	Metric	English	Comments
Zinc, Zn	1.5 %	1.5 %	

Processing Properties	Metric	English	Comments
Processing Temperature	849 °C	1560 °F	Preheating Temp.
Melt Temperature	1040 - 1110 °C	1900 - 2030 °F	
Casting Temperature	1260 °C	2300 °F	

Descriptive Properties	Value	Comments
Color	yellow	

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