

Wieland Porta Aurium PFM Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Silver Alloy

Material Notes:

All-purpose alloy for low-fusing high expanding ceramics Applications: inlays/onlays, crowns, short span bridges, long span bridges, telescopic and milling works, removable partials, ceramic veneering, acrylic veneeringDental

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wieland-Porta-Aurium-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	14.7 g/cc	0.531 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	190	190	HV5/30; after porcelain firing
	210	210	HV5/30; hardened
Tensile Strength, Yield	400 MPa @Strain 0.200 %	58000 psi @Strain 0.200 %	after porcelain firing
	460 MPa @Strain 0.200 %	66700 psi @Strain 0.200 %	hardened
Elongation at Break	4.0 %	4.0 %	hardened
	6.0 %	6.0 %	after porcelain firing
Modulus of Elasticity	103 GPa	14900 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.3 μm/m-°C	9.06 μin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	55 %	55 %	
Indium, In	3.5 %	3.5 %	
Palladium, Pd	3.0 %	3.0 %	
Platinum, Pt	12 %	12 %	
Rhodium, Rh	0.50 %	0.50 %	

Component Elements Properties	Metric	English	Comments
Zinc, Zn	3.0 %	3.0 %	

Processing Properties	Metric	English	Comments
Processing Temperature	699 °C	1290 °F	Preheating Temp.
Melt Temperature	938 - 1080 °C	1720 - 1980 °F	
Casting Temperature	1230 °C	2250 °F	

Descriptive Properties	Value	Comments
Color	yellow	

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