

Wieland Porta Maximum PFM Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Gold 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-Maximum-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	16.0 g/cc	0.578 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	409.9 MPa @Strain 0.200 %	59450 psi @Strain 0.200 %	after porcelain firing
	460 MPa @Strain 0.200 %	66700 psi @Strain 0.200 %	hardened
Elongation at Break	7.0 %	7.0 %	hardened
	8.0 %	8.0 %	after porcelain firing
Modulus of Elasticity	98.0 GPa	14200 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.2 µm/m-°C @Temperature 25.0 - 500 °C	9.00 µin/in-°F @Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	70 %	70 %	
Indium, In	5.0 %	5.0 %	
Palladium, Pd	2.5 %	2.5 %	
Platinum, Pt	10 %	10 %	
Rhodium, Rh	0.50 %	0.50 %	

Component Elements Properties	Metric	English	Comments
Zinc, Zn	2.0 %	2.0 %	

Processing Properties	Metric	English	Comments
Processing Temperature	699 °C	1290 °F	Preheating Temp.
Melt Temperature	910 - 1060 °C	1670 - 1940 °F	
Casting Temperature	1200 °C	2190 °F	

Descriptive Properties	Value	Comments
Color	yellow	

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