

Wieland Porta Maximum NF 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-NF-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	15.4 g/cc	0.556 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	240	240	HV5/30; after porcelain firing
	260	260	HV5/30; hardened
Tensile Strength, Yield	640.0 MPa @Strain 0.200 %	92820 psi @Strain 0.200 %	after porcelain firing
	700.0 MPa @Strain 0.200 %	101500 psi @Strain 0.200 %	hardened
Elongation at Break	3.0 %	3.0 %	after porcelain firing
	3.0 %	3.0 %	hardened
Modulus of Elasticity	110 GPa	16000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.00 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	71 %	71 %	
Indium, In	2.7 %	2.7 %	
Iridium, Ir	0.30 %	0.30 %	
Palladium, Pd	11 %	11 %	
Silver, Ag	13 %	13 %	

Component Elements Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	799 °C	1470 °F	Preheating Temp.
Melt Temperature	1020 - 1110 °C	1870 - 2030 °F	
Casting Temperature	1260 °C	2300 °F	

Descriptive Properties	Value	Comments
Color	yellow	

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