

Wieland Porta REFLEX® 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-Porta-REFLEX-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	210	210	HV5/30; after porcelain firing
	230	230	HV5/30; hardened
Tensile Strength, Yield	530.0 MPa @Strain 0.200 %	76870 psi @Strain 0.200 %	after porcelain firing
	550.0 MPa @Strain 0.200 %	79770 psi @Strain 0.200 %	hardened
Elongation at Break	3.0 %	3.0 %	hardened
	4.0 %	4.0 %	after porcelain firing
Modulus of Elasticity	107 GPa	15500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.3 µm/m-°C	7.94 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	81.2 %	81.2 %	
Iron, Fe	0.20 %	0.20 %	
Platinum, Pt	16 %	16 %	
Rhodium, Rh	0.50 %	0.50 %	
Titanium, Ti	0.30 %	0.30 %	

Component Elements Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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Processing Temperature	799 °C	1470 °F	Preheating Temp.
Melt Temperature	1050 - 1130 °C	1920 - 2070 °F	
Casting Temperature	1300 °C	2370 °F	

Descriptive Properties	Value	Comments
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Color	yellow	
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