

kuraray

CLEARFIL MAJESTY™ Posterior

A Superfilled Nano Hybrid Composite

A durable, reliable material that mimics indirect restorations but placed directly

- **Very high physical properties;** 92wt% filler including nano-sized alumina and glass-ceramics
- **Superior surface wear resistance;** excellent occlusal bite stability
- **Very low polymerization shrinkage;** minimal marginal micro-leakage and staining
- **Six optimized shades**
- **Ideal amalgam alternative**



Kuraray America, Inc.

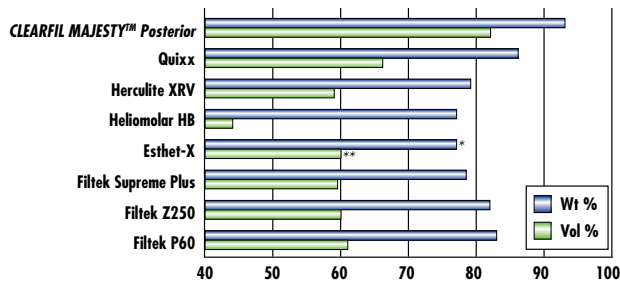
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Very high filler loading for superior physical properties including wear resistance and low polymerization shrinkage

CLEARFIL MAJESTY™ Posterior is a light-cure, nano-superfilled, radiopaque restorative posterior composite resin composed of nano and micro inorganic filler treated with a proprietary new surface coating technology. This breakthrough technology permits a larger quantity of nanofiller to be dispersed in the resin matrix. The resulting resin matrix is reinforced with a filler loading of 92 wt% (82 vol%, Fig. 1). CLEARFIL MAJESTY™ Posterior has an improved surface hardness close to that of human enamel, high mechanical strength (compressive strength: 504 MPa; flexural strength: 177 MPa, Fig. 2), high durability, high curing depth, low polymerization shrinkage (1.5 vol%, Fig. 3) and a low thermal coefficient. These features assure a durable and reliable posterior restoration.

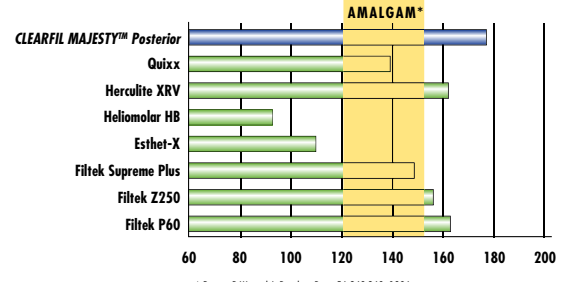
Superior Physical Properties for Optimal Posterior Restorations

Fig. 1: Filler Content According To Manufacturers (%)



* Journal of Oral Rehabilitation 2004 31; 1090-1101
 ** Stomatologija, Baltic Dental and Maxillofacial Journal, 8:67-9, 2006

Fig. 2: Flexural Strength (MPa)



* Bryant, R.W., and J. Prosthet. Dent. 56:243-248, 1986

CLEARFIL MAJESTY™ Posterior has a higher flexural strength than most composites, as well as amalgam

Fig. 3: Volumetric Shrinkage (%)

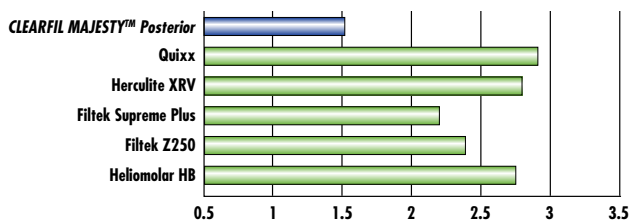


Fig. 4: Filler Comparison

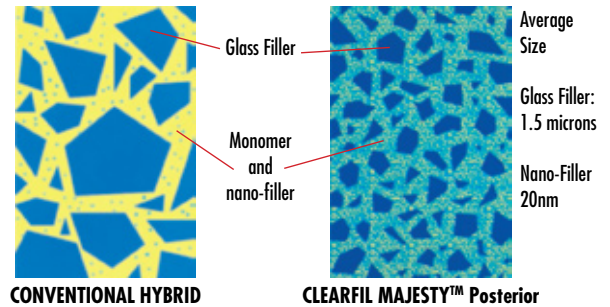
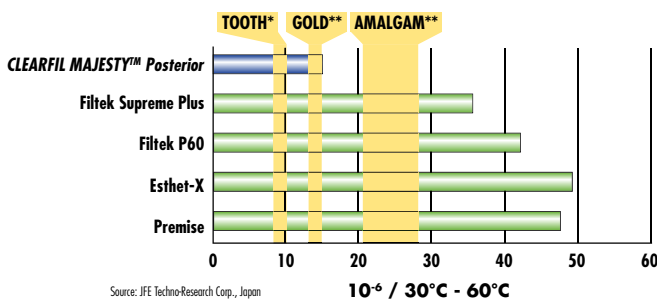


Fig. 5: Thermal Expansion Coefficient



Source: JFE Techno-Research Corp., Japan
 * J. J. Dental. Mater. 1997, 16(6)
 ** J.M. Powers et al., DENTAL MATERIALS, 9th Edition, Mosby, 2007

CLEARFIL MAJESTY™ Posterior's coefficient of thermal expansion is less than amalgam's and nearly mimics that of human teeth. CLEARFIL MAJESTY™ Posterior expands/contracts very similar to how tooth structure expands/contracts with thermal stress, resulting in a low mechanical stress at the tooth/restoration interface.

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Related Products:



SURFACE COAT™

- Colorless, transparent gloss that "feels good" to your patient
- Glazed surface resists staining
- High gloss that can protect the restoration surface
- Excellent physical properties, especially surface hardness

CLEARFIL MAJESTY™ Posterior Products

Item Number	Shade	Description	Contents
#2580KA	A1		Syringe 1 Syringe for each shade 2.0 ml (4.9g)
#2581KA	A2		
#2582KA	A3		
#2586KA	B2		
#2593KA	E2	High Translucency, Enamel	
#2594KA	E3	Medium Translucency, Enamel	
#2691KA	A1		Tips (PLT) 20 Tips for each shade 0.25g/each tip
#2692KA	A2		
#2693KA	A3		
#2695KA	B2		
#2700KA	E2	High Translucency, Enamel	
#2701KA	E3	Medium Translucency, Enamel	
#2152KA		Shade Guide	1