

Hybrid Plastics®

Superior Technology for Superior Products

POSS® Bond MA2110

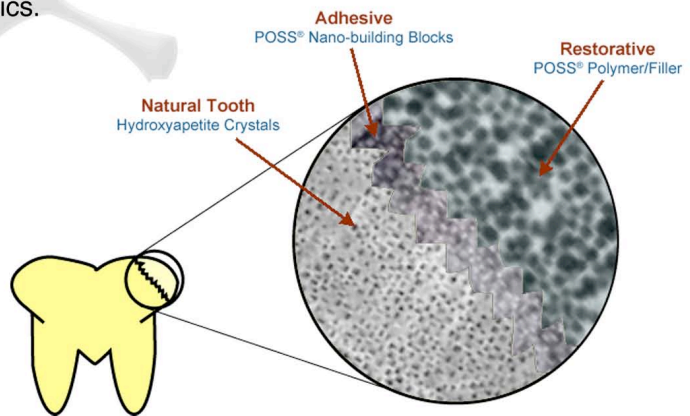
MA2110 is a transparent UV adhesive that has excellent mechanical properties, outstanding scratch resistance and excellent adhesion to most material types. It is a biocompatible material. Major applications include dental materials, medical devices and optics.

KEY PERFORMANCE

- Fast cure under UV light
- Excellent hardness
- Oxidation/corrosion resistant
- Adhere to common materials
- Stain resistant and scratch/wear resistant
- Low viscosity, easy handling, very low odor
- Transparent, non-yellowing

PHYSICAL PROPERTIES

Composition:	POSS® methacrylate mixture Other methacrylate monomers UV initiator (amount adjustable depending on applications)
%Solid:	>85%
Density (after cure):	1.2 g/ml
Hardness (shore D):	83
Glass Transition:	90-105°C
Viscosity:	7.5 poise
CTE:	80 ppm/°C
Appearance before hardening:	Clear pale yellow liquid
Appearance after hardening:	Clear and transparent
Shelf life:	1 year at ambient temperature in shipped container



Before



After

CURE CONDITIONS

The wavelength of the curing sources should be between 250-430 nm. 80-250 watts medium pressure mercury lamps are recommended. The cure time depends on the amount of UV initiator used and the depth of the coating.

WARRANTY

The information contained herein is believed to be accurate and reliable. However, the user is responsible for determining the suitability and use of the final formulations/products. Hybrid Plastics® warrants that its products will meet specifications, but not merchantability or fitness for use.