



Specialists in:
Nanostructured Chemicals
POSS Chemicals, Reagents, and Prepolymers
Organosilicons: silica, silsesquioxan

NanoBond™- UV Curable Adhesive

Hybrid Plastics provides proprietary Nanostructured® Chemical technology and formulation experience for the enhancement of physical properties of conventional polymer properties. Hybrid Plastics sales and development teams work with each customer to ensure the best match of our material properties to your application needs and budget.

Pentron® Clinical Technologies has recently announced the development of a general class of POSS® based adhesives which are marketed under the NanoBond™ brand. NanoBond™ offers many physical properties that are desirable for engineering applications.

APPLICATIONS

Adhesive for dental and optical applications.

PHYSICAL PROPERTIES

Composition:	POSS® methacrylate and methacrylate resin mixture
Density:	1.1-1.2 g/ml
Glass Transition:	90-105°C
CTE:	45-65 ppm/°C
Appearance:	Yellowish liquid
Hardening time:	10-30 sec under visible/UV light exposure
Appearance after hardening:	Clear and transparent
Volatiles (%):	<5%

PACKAGING and SHELF LIFE

NanoBond™ is available in re-sealable containers in sizes of 5 ml, 100 ml, 500 ml, 17 kg pails and 187 kg drums. All products are shipped in a purified form. Material must be kept away from direct light exposure. Refrigeration is recommended for storage of product for 3 months or more.

SPECIFICATIONS

Hybrid Plastics recommends that NanoBond™ be thoroughly tested by the user in the actual application for which the formulation was developed prior to items of commerce being offered. The information contained herein is believed to be accurate and reliable and at the time of issuance. The user is responsible for determining the suitability and use of the final formulations/products. Hybrid Plastics warrants that its products will meet specifications however there is no warranty of merchantability of fitness for use, nor any other express or implied warranties. Hybrid Plastics will not be liable for incidental or consequential damages of any kind.

AVAILABILITY

NanoBond™ is available directly from Hybrid Plastics. 18237 Mount Baldy Circle, Fountain Valley, CA 92708-6117, www.hybridplastics.com 714-962-0303 voice, 714-962-4024 fax