



HYSOL® OS4210

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PRODUCT DESCRIPTION

Hysol® OS4210 is a low viscosity, long pot life encapsulating system that cures at 85°C or above to yield clear water white castings. OS4210 is particularly suited for use on polycarbonate cast displays.

TYPICAL APPLICATIONS

Optoelectronic Liquid Encapsulant

PROPERTIES OF UNCURED MATERIAL

	OS4210 Part A	OS4210 Part B
Color	Clear	Clear
Density @ 25°C, (77°F), gm/cc	1.19	1.17
ASTM D1475		
Shelf Life @ 25°C, (77°F), months	12	12

Typical Value

Viscosity @ 25°C, (77°F)	
ASTM D2393	
Brookfield RVF	
Spindle 3, Speed 10, cP	6,500
Spindle 1, Speed 20, cP	100

PHYSICAL PROPERTIES, CURED MATERIAL

	OS4210
Color	Water-white
Coefficient of Thermal Expansion, in/in/°C	
(25-85°C), ASTM D3386	70×10^{-6}
Density, gm/cc (ASTM D3386)	110
Linear Shrinkage, ASTM D2566	0.8
Glass Transition, T(g), °C	
(ASTM D3386),	110

Handling

(Recommended mix ratio and typical mixed properties)

Mix Ratio, parts by weight*	100/100
Pot Life, @ 25°C, (77°F)	6 hours
(200 gram mass), hrs/min	
Viscosity @ 25°C, (77°F)	
Spindle 3, Speed 20, cps	800
Gel Time @ 100°C, (212°F), minutes	10

*Mix ratio of these materials is fixed by their chemistry. Any attempt to increase or decrease the cure rate by adding more or less hardener will result in degraded materials.

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or their strong oxidizing materials

Cure Schedule

Recommended Cure	2 hrs @ 100°C
Alternate Cure	6 hrs @ 85°C

Typical cured properties were determined using the recommended cure schedule. Some differences in properties may occur with the alternate or other cure schedules.

Note

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Loctite Electronics

Henkel Loctite Corporation, 15051 E Don Julian Road, Industry, CA 91746, U.S.A.
U.S.A.: 626.968.6511 Canada: 905.814.6511 Brazil: 011.55.11.4143.7000
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