



Hysol® OS1500

November 2002

PRODUCT DESCRIPTION

Hysol® OS1500 is a clear, fast gelling, flexible L.E.D casting compound designed for the encapsulation of optoelectronic displays.

PROPERTIES OF UNCURED MATERIAL

	Part A	Part B
Color	Clear Blue	
Color Maximum, (ASTM D1544)		Gardner 2
Shelf Life, @ 25°C, (77°F),	6	6
	Typical Value	
Viscosity @ 25°C, (77°F), cP		
Brookfield RVF		
Spindle 1, Speed 10	400-800	
Spindle 6, Speed 20		15,000-25,000

TYPICAL CURED PROPERTIES

Physical

	OS1500
Color	Water-White
Glass Transition Temp. °C. (ASTM D1674)	105-125
Coefficient of Thermal Expansion, In/in/°C x 10 ⁻⁶ , (ASTM D1674)	70-95
Hardness, Shore D, (ASTM D2240)	85
Weight Loss, % 24 hrs @ 150°C (ASTM D3377)	0.026
Moisture Absorption, % (ASTM D570)	
24 hr immersion @ 60°C	0.91

Electrical Properties

Dielectric Constant, (ASTM D150)	
100 Hz	3.11
1 kHz	3.08
10 kHz	3.01
Dissipation Factor, (ASTM D150)	
100 Hz	.005
1 kHz	.010
10 kHz	.013

Volume Resistivity, ohms-cm (ASTM D257)	3.6 x 10 ¹⁶
Surface Resistivity, ohms (ASTM D150)	4.4 x 10 ¹⁶

HANDLING

	OS1500 Part A/Part B
Mix Ratio	100/90
Mixed Viscosity @ 25°C, (77°F) cP	
Spindle 3, Speed 20	1700-2500
Gel Time @121°C, minutes	2-5
Pot Life @25°C. (77°F), hours	4-5
200 gram mass	

CURE SCHEDULE

Displays	8 hrs @ 115°C
Discrete	Gel 5 minutes @ 150°C plus postcure
	3 hrs @ 125°C

Some variations in listed value may occur; customer should determine whether cure other than recommended above would give satisfactory results.

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

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

Note

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