

# OPTODYNE™ UV-1100

Epoxy; Epoxide  
DAIKIN AMERICA, INC.

Message:

Optodyne UV-1100 is a single component, epoxy-based UV curable adhesive designed for bonding optical connectors, lenses, prisms and other optical components. Its exceptional strength, combined with its unique index matching capability, make the Optodyne Series of adhesives superior in many respects:

Excellent water resistance  
Exceptional bonding strength  
Superior transparency  
Rapid cure

General Information			
Features	Bondability		
	Fast Cure		
	High Strength		
	Low to No Water Absorption		
	UV Curable		
Uses	Adhesives		
	Optical Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			Internal Method
-- <sup>1</sup>	1.36	g/cm <sup>3</sup>	
-- <sup>2</sup>	1.42	g/cm <sup>3</sup>	
Molding Shrinkage - Flow <sup>3</sup>	4.0	%	Internal Method
Water Absorption <sup>4</sup> (24 hr)	0.21	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>5</sup> (Shore D)	82		Internal Method
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature <sup>6</sup>	100	°C	Internal Method
Glass Transition Temperature <sup>7</sup>	145	°C	Internal Method
CLTE - Flow <sup>8</sup>	1.0E-4	cm/cm/°C	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flash Point - Before Cure	128	°C	
Temperature of Intial Weight Loss - 5% Weight Loss <sup>9</sup>	313	°C	
Optical	Nominal Value	Unit	Test Method
Refractive Index <sup>10</sup>	1.435		Internal Method

Transmittance <sup>11</sup>	94.2	%	Internal Method
Thermoset	Nominal Value	Unit	Test Method
Shelf Life	26	wk	
Thermoset Mix Viscosity	250	cP	Internal Method

NOTE	
1.	Before Cure, 25°C
2.	After Cure, 25°C
3.	After Cure
4.	After Cure
5.	After Cure
6.	After Cure
7.	After Cure
8.	After Cure
9.	After Cure
10.	Before Cure, 25°C
11.	After Cure

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