

**AXIS 980**
**MULTIPURPOSE UV ADHESIVE**
**TECHNICAL DATA**
**Product Description**

Medical device adhesive Axis 980 is designed for rapid bonding of plastics and metals typically used in the manufacture of medical devices. Resin Designs medical device adhesives contain no nonreactive solvents and cure upon exposure to light. Their ability to cure in seconds enables faster processing, greater output, and lower processing costs. When cured with UV light curing spot lamps, focused beam lamps, or flood lamps, they deliver optimum speed and performance for medical device assembly. This product is in full compliance with the RoHS directives 2002/95/EC and 2003/11/EC. Axis 980 has been qualified to the ISO 10993 Protocol as a means to assist in the selection of products for use in the medical device industry.

**APPLICATIONS**

- Needle bonding
- Reservoirs
- Transducer assembly
- Medical potting

**FEATURES**

- UV/visible light cure
- Moisture resistant

**RECOMMENDED SUBSTRATES**

- PC
- PVC
- Glass
- ABS
- Stainless steel

**BIOCOMPATIBILITY**

- ISO 10993 cytotoxicity

**UNCURED PROPERTIES\***

| Property         | Value                   | Test Method |
|------------------|-------------------------|-------------|
| Solvent Content  | No Nonreactive Solvents | N/A         |
| Chemical Class   | Acrylated Urethane      | N/A         |
| Appearance       | Clear                   | N/A         |
| Specific Gravity | 1.04 - 1.07             | TFTEST002   |
| Viscosity, cps   | 1,000-2,000             | TFTEST001   |

**CURED MECHANICAL PROPERTIES\***

| Property                    | Value        | Test Method |
|-----------------------------|--------------|-------------|
| Durometer Hardness, Shore D | 70           | TFTEST012   |
| Tensile at Break, MPa [psi] | 17 [2,500]   | N/A         |
| Elongation at Break, %      | 66           | N/A         |
| Modulus of Elasticity [psi] | 330 [48,000] | N/A         |

**OTHER CURED PROPERTIES\***

| Property                          | Value | Test Method |
|-----------------------------------|-------|-------------|
| Refractive Index (20°C)           | 1.51  | N/A         |
| Boiling Water Absorption, % (2hr) | 3.5   | N/A         |
| Water Absorption, % (25°C, 24 hr) | 1.5   | N/A         |
| Linear Shrinkage, %               | 0.08  | N/A         |

**Storage:**

Store material in cool, dry location at a temperature between 10°C to 28°C. Keep from freezing. Material is sensitive to UV and visible light. Refer to packaging specific quote for shelf life information. Consult MSDS for safe handling recommendations.

**ISO - 10993**

An ISO 10993 test protocol is an integral part of the quality program for Axis 980. Axis 980 has been qualified to Resin Designs, LLC ISO 10993 protocol as a means to assist in the selection of products for use in the medical device industry.

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Resin Designs, LLC 11 State Street Woburn, MA 01801    www.resindesigns.com    P 781-935-3133    F 781-935-3144

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