

**AXIS 962**

**MULTIPURPOSE ADHESIVE FOR PLASTICS AND METAL**

**TECHNICAL DATA**

**Product Description**

AXIS 962 is suitable for a wide variety of applications that require fast cure, flexibility, high adhesion and autoclave resistance. This product cures in seconds when exposed to light of the proper wavelength and intensity and achieves excellent adhesion to glass, plastics and metal, and will cure with both UV and/or heat exposure. The ability of this product to fluoresce under black light facilitates inspection of bonded assemblies for adhesive presence. AXIS 962 was specifically designed for bonding stainless steel cannulae into hubs, syringes and lancets for needle assemblies. The viscosity of this product makes the adhesive well suited for applications where the adhesive will be dispensed in the well after the cannulae and the hub have been assembled. Suitable for use in the assembly of disposable 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. This product is in full compliance with the RoHS directives 2002/95/EC and 2003/11EC.

APPLICATIONS	FEATURES	RECOMMENDED SUBSTRATES	BIOCOMPATIBILITY
<ul style="list-style-type: none"> <li>• Needle bonding</li> <li>• Transducer assembly</li> </ul>	<ul style="list-style-type: none"> <li>• UV/visible light cure</li> <li>• Fluorescing</li> <li>• Moisture resistant</li> <li>• Autoclave resistant</li> <li>• Secondary heat cure</li> <li>• Shadow area heat cure</li> </ul>	<ul style="list-style-type: none"> <li>• PC</li> <li>• PVC</li> <li>• PU</li> <li>• ABS</li> <li>• Stainless steel</li> </ul>	<ul style="list-style-type: none"> <li>• ISO 10993 cytotoxicity</li> </ul>

UNCURED PROPERTIES		
Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Acrylated Urethane	N/A
Appearance	Clear Liquid	N/A
Specific Gravity	1.15	QPTTEST002
Viscosity @25°C, cps	500 to 800	QPTTEST001

CURED MECHANICAL PROPERTIES		
Property	Value	Test Method
Durometer Hardness, Shore D	67	QPTTEST012
Tensile Strength, psi	>2,600	N/A
Elongation at Break, %	120 to 150	N/A
Glass Transition Temperature, C	70 to 80	N/A
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, %	2	N/A

CURE OVERVIEW		
Property	Value	Test Method
Optimum Wavelength, Nm	365, 405	N/A
Heat Cure @125C, min	10	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 SDS for safe handling recommendations.

**ISO - 10993**

An ISO 10993 test protocol is an integral part of the quality program for Axis 962. Axis 962 has been qualified to Resin Designs ISO 10993 protocol as a means to assist in the selection of products for use in the medical device industry. Certificates of compliance are available through the Resin Designs quality department.

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