

AXIS 991

MULTIPURPOSE ADHESIVE FOR PLASTICS AND METAL
Text

TECHNICAL DATA

Product Description

AXIS 991 is suitable for a wide variety of applications that require fast cure, flexibility, high adhesion and autoclave resistance. AXIS 991 cures in seconds when exposed to light of the proper wavelength and intensity and achieves excellent adhesion to glass, plastics, and metal. AXIS 991 was specifically designed for bonding stainless steel cannulae into hubs, syringes and lancets for needle assemblies. Suitable for use in the assembly of disposable medical devices. Axis 991 Medical Device Adhesive is designed for rapid bonding of plastics and metals typically used in manufacture of medical devices. This product fluoresces blue for in-line inspection under low-intensity "black" light (365nm). 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 beams, 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 2003/11EC.

APPLICATIONS	FEATURES	RECOMMENDED SUBSTRATES	BIOCOMPATIBILITY
<ul style="list-style-type: none"> • Needle bonding • Reservoirs • Transducer assembly • Medical potting 	<ul style="list-style-type: none"> • UV/visible light cure • Blue fluorescing • Moisture resistant 	<ul style="list-style-type: none"> • PC • PVC • PU • ABS • Stainless steel 	<ul style="list-style-type: none"> • ISO 10993 cytotoxicity

UNCURED PROPERTIES*		
Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Acrylated Urethane	N/A
Appearance	Light Transparent Liquid	N/A
Soluble in	Organic Solvents	N/A
Specific Gravity	1.06	TFTEST002
Viscosity @25C, cps	1,100 (nominal)	TFTEST001

CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Durometer Hardness, Shore D	60	TFTEST012
Tensile at Break, MPa [psi]	18 [2,600]	N/A
Elongation at Break, %	280	N/A
Modulus of Elasticity [psi]	285 [41,000]	N/A

OTHER CURED PROPERTIES*		
Property	Value	Test Method
Refractive Index (20C)	1.53	N/A
Boiling Water Absorption, % (2hr)	2.5	N/A
Water Absorption, % (25C, 24 hr)	1.34	N/A
Linear Shrinkage, %	1.9	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 991. Axis 991 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. Certificates of compliance are available through the Resin Designs, LLC quality department.

Revision Number: 3 Date: 10 July, 2013

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

Resin Designs, LLC makes no express or implied warranties or merchantability, fitness or otherwise with respect to this product. In addition, while the information contained herein is believed to be reliable, no warranty is express or implied regarding the accuracy of the results to be obtained from the use thereof. The properties given are typical values and are not intended for use in preparing specifications. User should make their own test to determine the suitability of this product for their own purposes.