Resin Designs, LLC

AXIS MEDICAL DEVICE ADHESIVES

AXIS 987

POLYCARBONATE/FLEXIBLE PVC BONDER

TECHNICAL DATA

Product Description

Axis 987 is primarily designed for bonding rigid or flexible PVC polycarbonate where large gap filling capabilities and flexible joints are desired. The product has shown excellent adhesion to a wide variety of substrates including glass, many plastics, and most metals. The thixotropic nature of Axis 987 reduces the migration of the liquid product after application to the substrate. Axis 987 is designed for rapid bonding of plastics and metals typically used in the manufacture of medical devices. Axis 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. Axis 987 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	FEATURES	RECOMMENDED SUBSTRATES	BIOCOMPATIBILITY
• Catheters	• UV/visible light cure	• PC	• ISO 10993 cytotoxicity
• Reservoirs	• Shock absorbing	• PVC	
• Transducer assembly	• Moisture resistant	• PU	
• Tube sets		• ABS	

UNCURED PROPERTIES*		
Property	**Value**	**Test Method**
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Acrylated Urethane	N/A
Appearance	Light Transparent Liquid Gel	N/A
Specific Gravity	1.03	TFTEST002
Viscosity, cps	3,500-7,500	TFTEST001

CURED MECHANICAL PROPERTIES*		
Property	**Value**	**Test Method**
Durometer Hardness, Shore D	53	TFTEST012
Tensile at Break, MPa [psi]	18.5[2700]	N/A
Elongation at Break, %	250	N/A
Refractive Index (20C)	1.51	N/A
Boiling Water Absorption, % (2hr)	3	N/A
Water Absorption, % (25C, 24 hr)	1.5	N/A
Linear Shrinkage, %	2.2	N/A
Modulus of Elasticity [psi]	260 [39,000]	N/A

UV LIGHT CURE DATA		
Property	**Value**	**Test Method**
Minimum Intensity, mw/cm2	200	N/A
Spectral Output, Nm	300 to 415	N/A
Optimum Wavelength, Nm	365, 405, 415	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 987. Axis 987 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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