

AXIS 931

POLYCARBONATE / FLEXIBLE PVC BONDER

TECHNICAL DATA

Product Description

Axis 931 Medical Device Adhesive is designed for rapid bonding of plastics typically used in the manufacture of medical devices. Resin Designs, LLC medical device adhesives contain no nonreactive solvents and cure upon exposure to UV light. Their ability to cure in seconds enables faster processing, greater output, and lower processing costs. Axis 931 is designed for bonding rigid or flexible PVC to polycarbonate, while not inducing stress cracking under typical molded stress levels. It enables easy assembly of components with close fitting tolerances (i.e. joining polycarbonate to flexible PVC tubing), and is recommended for applications involving small gaps less than 0.25mm. It has also shown excellent adhesion to a wide variety of substrates including glass, many plastics, and most metals. This product is in full compliance with the RoHS directives 2002/95/EC and 2003/11EC. Axis 931 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
<ul style="list-style-type: none"> • Needle bonding • Reservoirs • Transducer assemblies • Medical potting 	<ul style="list-style-type: none"> • UV / visible light cure • 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	Low Viscosity Clear Liquid	N/A
Specific Gravity	1.1	TFTEST002
Viscosity, cps	200-400	TFTEST001

CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Durometer Hardness, Shore D	60-70	TFTEST012
Elongation at Break, %	26,590	N/A
Tensile at Break, Mpa, [psi]	23 [3,300]	N/A

OTHER CURED PROPERTIES*		
Property	Value	Test Method
Refractive Index (20°C)	1.5	N/A
Boiling Water Absorption, % (2hr)	2.9	N/A
Water Absorption, % (25°C, 24 hr)	1.7	N/A
Linear Shrinkage, %	0.8	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 931. Axis 931 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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