


TECHNICAL SPECIFICATIONS FOR ANTISTATIC BUTADYL® GLOVE

	TYPE	DESCRIPTION
	MATERIAL	BUTADYL®
	COLOR	WHITE
	MODEL	EQ-AGB-Glove
	HAND STYLE	HAND SPECIFIC OR AMBIDEXTROUS
	THICKNESS	30mm
	LENGTH	32 INCHES
	BEAD	0.25 INCH
	MARKING	MTI Corporation

BUTADYL® CHARACTERISTICS

BUTADYL® IS A COST EFFECTIVE ALTERNATIVE TO HYPALON®, NEOPRENE OR BUTYL IN MANY APPLICATIONS. IT PERFORMS WELL IN SITUATIONS IN WHICH VAPORIZED HYDROGEN PEROXIDE (VHP) IS INVOLVED. IT ALSO OFFERS STRONG RESISTANCE TO PARTICULARLY HARMFUL AGENTS, SUCH AS: AROMATIC HYDROCARBONS, PETROLEUM SOLVENTS, AND LIPIDS. IT IS AN IDEAL MATERIAL THAT MAINTAINS CONSISTANCY WHEN FACED WITH PRESENCE OF OZONE OR SUN, AND IS NOT PRONE TO INDUCE ALLERGIC REACTIONS.

PERMEATION TEST RESULTS ON WHITE BUTADYL® GLOVES: ASTM F 739-99A

TEST CHEMICAL	BREAKTHROUGH DETECTION TIME	PERMEATED MASS/UNIT AREA AT BREAKTHROUGH	STEADY STATE PERMEATION RATE
	MINUTES	(AVG.), UG/CM ²	(AVG.), UG/CM ² /MIN
ACETONE 99.5%	58 MINUTES	1097.9	814.0
ACETONITRILE 99.8%	21 MINUTES	514.3	2751.20
METHYL ALCOHOL (METHANOL) 99.84%	90 MINUTES	586.60	412.7
SULPHURIC ACID 37%	NO BREAKTHROUGH WAS DETECTED UP TO 240 MINUTES	-0-	-0-
AMMONIUM HYDROXIDE 30%	NO BREAKTHROUGH WAS DETECTED UP TO 240 MINUTES	-0-	-0-
HYDROFLUORIC ACID 51%	NO BREAKTHROUGH WAS DETECTED UP TO 240 MINUTES	-0-	-0-
ANILINE 100%	120 MINUTES	123.8	N/A

PHYSICAL PROPERTIES

WHITE BUTADYL GLOVES	
ULTIMATE ELONGATION, %	417
100% MODULUS, PSI	633
200% MODULUS, PSI	1067
300% MODULUS, PSI	1704
TENSILE STRENGTH, PSI	3848

GAS PERMIABILITY

	GAS (REFERENCE)	AIR	HYDROGEN	NITROGEN	OXYGEN	HELIUM
BUTADYL®		2.1	69.674	17.204	9.10	72.028

PERMEATION TEST RESULTS FOR CYTOTOXIC DRUGS, 4 HOUR DURATION

TEST CHEMICAL	BREAKTHROUGH DETECTION TIME	STEADY STATE PERMEATION RATE	OTHER OBSERVATIONS
	Minutes	(Avg) Ug/cm ² /min	
DACARBAZINE 10.0 MG/ML (10,000 PPM)	NO BREATHROUGH UP TO 240 MINUTES	0	NO SWELLING, NO DEGRADATION
CARMUSTINE (BiCNU) 3.3 MG/ML (3,300 PPM)	NO BREATHROUGH UP TO 240 MINUTES	0	NO SWELLING, NO DEGRADATION
CYCLOPHOSPHAMIDE (CYTOXAN) 20.0 MG/ML (20,000 PPM)	NO BREATHROUGH UP TO 240 MINUTES	0	NO SWELLING, NO DEGRADATION
DOXORUBICIN HYDROCHLORIDE 2.0 MG/ML (2,000 PPM)	NO BREATHROUGH UP TO 240 MINUTES	0	NO SWELLING, NO DEGRADATION
5-FLUOROURACIL 50.0 MG/ML (50,000 PPM)	NO BREATHROUGH UP TO 240 MINUTES	0	NO SWELLING, NO DEGRADATION
CISPLATIN 1.0 MG/ML (1,000 PPM)	NO BREATHROUGH UP TO 240 MINUTES	0	NO SWELLING, NO DEGRADATION
ETOPOSIDE (TOPOSAR) 20.0 MG/ML (20,000 PPM)	NO BREATHROUGH UP TO 240 MINUTES	0	NO SWELLING, NO DEGRADATION
PACLITAXEL (TAXOL) 6.0 MG/ML (6,000 PPM)	NO BREATHROUGH UP TO 240 MINUTES	0	NO SWELLING, NO DEGRADATION
THIO-TEPA 10.0 MG/ML (10,000 PPM)	NO BREATHROUGH UP TO 240 MINUTES	0	NO SWELLING, NO DEGRADATION

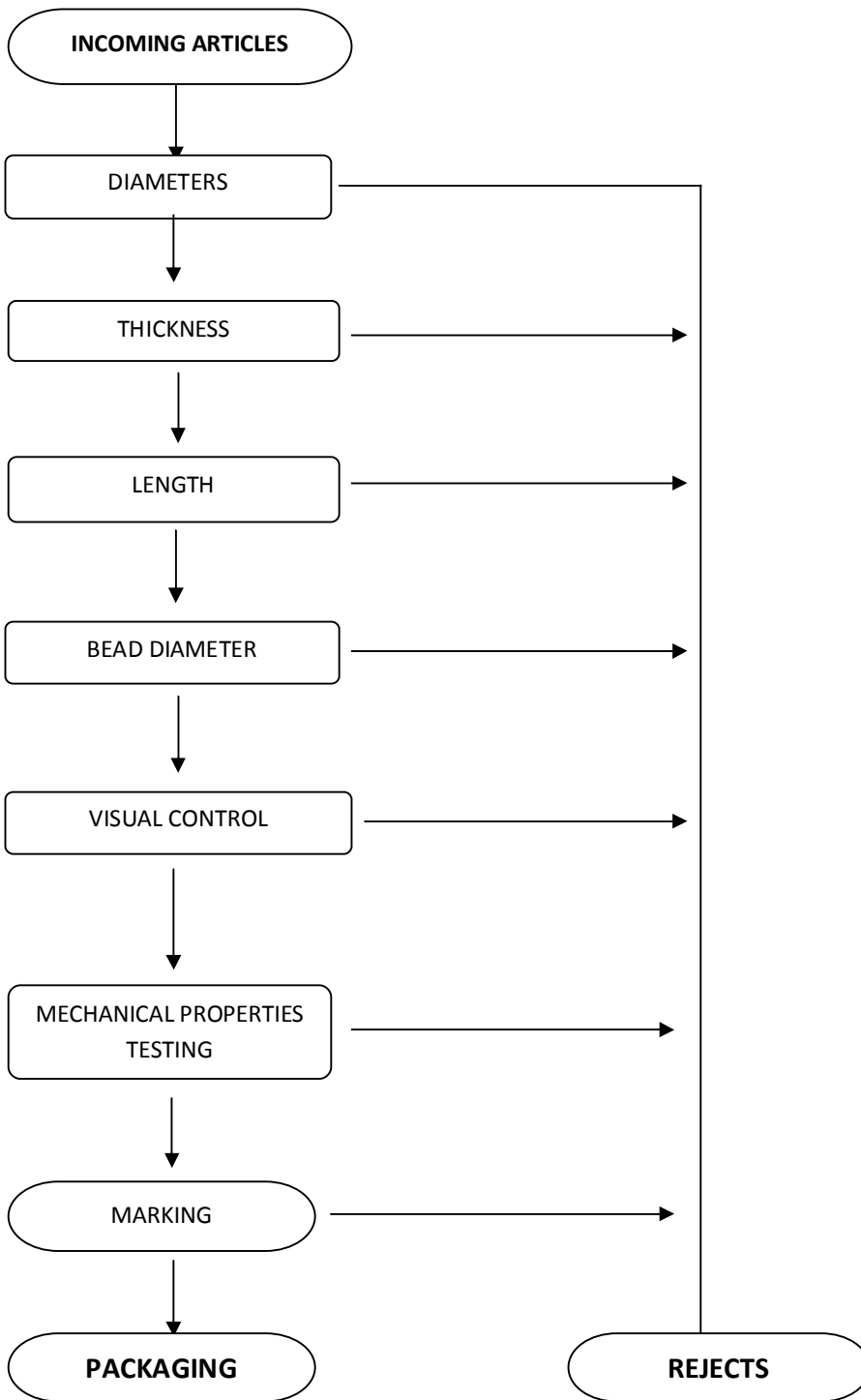
PERMEATION TEST RESULTS FOR CYTOTOXIC DRUGS, 8 HOUR DURATION

TEST CHEMICAL	BREAKTHROUGH DETECTION TIME	STEADY STATE PERMEATION RATE	OTHER OBSERVATIONS
	Minutes	(Avg) Ug/cm ² /min	
CYCLOPHOSPHAMIDE (CYTOXAN) 20.0 MG/ML (20,000 PPM)	NO BREAKTHROUGH UP TO 480 MINUTES	0	NO SWELLING, NO DEGRADATION
DOXORUBICIN HYDROCHLORIDE 2.0 MG/ML (2,000 PPM)	NO BREAKTHROUGH UP TO 480 MINUTES	0	NO SWELLING, NO DEGRADATION
5-FLUOROURACIL 50.0 MG/ML (50,000 PPM)	NO BREAKTHROUGH UP TO 480 MINUTES	0	NO SWELLING, NO DEGRADATION
METHOTREXATE 25.0 MG/ML (25,000 PPM)	NO BREAKTHROUGH UP TO 480 MINUTES	0	NO SWELLING, NO DEGRADATION
VINCRIStINE SULFATE 1.0 MG/ML (2,000 PPM)	NO BREAKTHROUGH UP TO 480 MINUTES	0	NO SWELLING, NO DEGRADATION
DAUNORUBICIN HYDROCHLORIDE 5.0 MG/ML (5,000 PPM)	NO BREAKTHROUGH UP TO 480 MINUTES	0	NO SWELLING, NO DEGRADATION

PERMEATION RESULTS FOR VAPORIZED HYDROGEN PEROXIDE (VHP)

CHEMICAL TESTED	TIME INTERVAL	AVERAGE BREAKTHROUGH DETECTION TIME (SPECIMEN 1/2/3) Minutes	AVERAGE STEADY STATE PERM. RATE (SPECIMEN 1/2/3) (µg/cm ² /minutes)	COMMENTS
HYDROGEN PEROXIDE, 35%				
	1 HOUR	NO BREAKTHROUGH	N/A	NO SWELLING, DEGRADATION, OR SWELLING
	5 HOURS	NO BREAKTHROUGH	N/A	NO SWELLING, DEGRADATION, OR SWELLING
	10 HOURS	NO BREAKTHROUGH	N/A	NO SWELLING, DEGRADATION, OR SWELLING
	20 HOURS	NO BREATHROUGH	N/A	NO SWELLING, DEGRADATION, OR SWELLING

QUALITY CONTROL INSPECTION FLOW CHART



USAGE RECOMMENDATIONS

THIS GLOVE IS PARTICULARLY RECOMMENDED FOR:

- SODIUM HYDROXIDE 50%
- NITRIC ACID 10%
- POTASSIUM HYDROXIDE 50%
- PERCHLORIC ACID 60%

IT IS ALSO SUITABLE FOR HANDLING CHEMICAL PRODUCTS LIKE:

- ALCOHOLS
- MINERAL SPIRITS
- PENTANE, KEROSENE
- EDIBLE OILS AND ACIDS

THIS GLOVE IS NOT SUITABLE FOR HANDLING:

- KETONIC SOLVENTS (i.e. METHYL ETHYL KETONE)
- PLASTICISERS (i.e. PROPYLENE OXIDE)
- CHLORINATED SOLVENTS (i.e. METHYLENE CHLORIDE)
- AROMATIC SOLVENTS (i.e. XYLENE, STYRENE)
- PHENOL 90%

STORAGE AND MAINTENANCE

- BUTADYL GLOVES ARE PACKAGED FULLY EXTENDED, INDIVIDUALLY WRAPPED IN A POLYETHYLENE BAG.
- AFTER HANDLING, PLEASE REMOVE CHEMICAL RESIDUE FROM GLOVES WITH SOAPY WATER.
- BUTADYL GLOVES MUST BE RETURNED TO A POLYETHYLENE BAG AND STORED AT ROOM TEMPERATURE TO AVOID ALL RISKS OF DETERIORATION AND DAMAGE.