

## DISPOSABLE GLOVE TERMS

**AQL**- Acceptable Quality Level is a quality specification that the FDA and the manufacturers use to specify the pinhole rate in surgical and exam grade gloves.

**Absorbable Dusting Powder**- A glove powder used to ease the donning of gloves. Donning powder on gloves is composed of cornstarch (USP absorbable dusting powder).

**Powder**- Due to the natural sticky characteristic of latex, powder is used as the means to prevent the gloves from sticking together and also for the ease of donning. Donning powder on gloves is composed of cornstarch (USP absorbable dusting powder). Powder gloves are easy to put on hands in a wet environment as compared to powder free gloves. Disadvantage: It leaves powder residue on hand and some users may be allergic to powder in general.

**Powder Free**- Gloves are made powder free through the chlorination or polymer coating processes. The latex protein content is substantially removed from the glove when these processes are used to remove powder.

**Elongation**- Measurement of the length a glove can be stretched before it breaks. It is expressed as a percent of the original length of the glove right at the moment it breaks. The higher the percentage, the more stretchable the glove material.

**Leaching**- The washing and cleansing process of gloves with water in the manufacturing of gloves, by which excess chemicals and/or latex protein are dissolved and washed away from the gloves.

**Modulus**- A low modulus glove is easy to stretch and flex, whereby a high modulus glove is hard to move and stretch.

**Permeation**- Movement of substance through a thin film, such as a glove, on a molecular level.

**Tensile Strength**- Measurement of the amount of force or pull required to break a glove. Tensile strength is expressed in Mpa, and the higher the number, the stronger the glove material.

### Examination Grade Gloves-

The Medical-Grade or Examination grade Gloves is to act as a reliable, protective barrier which prevents the transmission of organisms and blood-borne pathogens to its users. Exam gloves are not necessary in sterile form; it can be in non-sterile to protect hands from exposure. It is widely used in hospitals; laboratories; nursing homes (outside operating theatre) and other industrial and home applications.

The examination grade gloves are FDA approved to be used for patient examination.

FDA definition of examination grade gloves: A patient examination glove is a disposable device made of natural rubber latex or synthetic material that may bear a trace amount of glove powder or powder free and is intended to be worn on the hand or finger(s) for medical purposes to provide a barrier against potentially infectious materials and other contaminants.

### Surgical Gloves-

Sterile Surgical Gloves are protective gloves that are typically used by surgeons and operating room staffs. These gloves are hand specific.

### Non-Sterile-

Examination and non-medical gloves are normally nonsterile. This means that the gloves are not subjected to gamma irradiation that kills micro-organisms.

### Not for Medical Use/Industrial Grade/Disposable/General Purpose Gloves-

Disposable Gloves are generally used in the following applications: Food handling, salons/spas, electronic assemblies, laboratorial work, and packing process, automotive, janitorial, general pharmaceutical and home use. These gloves are not recommended for medical use or patient examination, especially to prevent transmission of organisms, blood-borne pathogens and protection against various chemicals.

### 21CFR-

Administrative and chemical information on over 3000 substances mentioned in Title 21 of the U.S. Code of Federal Regulations (21CFR) Parts 175, 176, 177, and 178. These parts of 21CFR deal with what are known as "indirect" food additives. These are substances used in food-contact articles, and include adhesives and components of coatings (Part 175), paper and paperboard components (Part 176), polymers (Part 177), and adjuvants and production aids (Part 178). In general, these are substances that may come into contact with food as part of packaging or processing equipment, but are not intended to be added directly to food.

Disposable gloves fall under these processing equipment that come in contact with the food. The material used latex; nitrile butadiene rubber (nitrile gloves); PVC (vinyl gloves) and Polyethylene for PE gloves are safe to be used as an indirect additive to come in contact with food.

### Glove Thickness-

is measured in mil. 1 mil = 0.025 mm

The glove thickness varies from one area to the other. The glove thickness is highest at the tip of the finger; medium at the middle of the palm and lowest at the cuff and it is due to manufacturing process of dipping the hand former up side down in the filled tank.

The perception of thicker the glove better the glove quality is not always true. Thicker glove may support longer exposure to chemicals being a stronger barrier than a thinner glove but for other application where tensile strength; elasticity; dexterity are required thinner glove would be preferred choice. With the advancement of manufacturing process; raw material properties thin mil gloves like 3.0 mil nitrile glove now has the same tensile strength like 5.0 mil nitrile glove.



## COMPETITIVE CROSS REFERENCE

	PROWORKS	IMPACT	AMEX	SAFETY ZONE	KC	SEMPER MED	TRADEX	SHOWA BEST	HIGH FIVE	PIP	VOLK	ANSELL
NITRILE BLUE EXAM	GL-N106F	8654	N/A	GNP-SZ-1	50578	NIPFT101	N200	96005-SZ	N/A	63-331PF	N/A	92-675
NITRILE BLACK EXAM	GL-N105F	8642	GPNB44100	N/A	N/A	BKNF103	N5201BLK	97006-SZ	N641	63-732PF	N/A	N/A
NITRILE BLUE EXAM	GL-N103F	N/A	N/A	N/A	55087	N/A	N/A	N/A	N731	N/A	N/A	73-400
NITRILE WHITE INDUSTRIAL	GL-N133F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LATEX PF EXAM*	GL-L106F	8622	APFLT70100	GREP-SIZE-1	57330	N/A	L200	5005PF	L97	62-321PF	91079	69-318
LATEX PD EXAM*	GL-L106P	8620	AP70100	GRER-SZ-1	N/A	N/A	L100	5005	L78	63-321	91078	5721
LATEX PF INDUSTRIAL*	GL-L105F	8625	TLF42100	GRPR-SZ-1-T	N/A	N/A	L5201	N/A	L56	63-322PF	61075	69-623
LATEX PD INDUSTRIAL*	GL-L105P	8621	TLF42100	GRDR-SZ-1-T	N/A	N/A	L5101	N/A	L49	62-322	61076	69-210
VINYL PF EXAM*	GL-V104F	8617	N/A	GVEP-SZ-1C	55030	N/A	V200	N/A	V60	64-435PF	81080	3081-S
VINYL PD EXAM*	GL-V104P	8605	N/A	N/A	N/A	N/A	V100	N/A	V40	64-435	81079	2081-S
VINYL PF INDUSTRIAL*	GL-V103F	8618	GPX342100	GVP9-SZ-1	N/A	N/A	V5201	2005PF	V28	64-V2000PF	N/A	34-725
VINYL PD INDUSTRIAL*	GL-V103P	86060	IV42100	GVDR-SZ-1	N/A	N/A	V5101	2005	V24	64-V2000	N/A	34-700
VINYL PF INDUSTRIAL*	GL-SV104F	8618	N/A	GVP9-SZ-1C-SY	N/A	SCVNP10	VS5221W	N/A	N/A	N/A	81075	34-175
VINYL PD BLUE INDUSTRIAL*	GL-V144P	8609	N/A	N/A	N/A	N/A	N/A	N/A	V26	64-V77B	71070	N/A

### OTHER GLOVE CATEGORIES AVAILABLE

Jersey Gloves  
 Leather Gloves  
 Household  
 Polyethylene Gloves

100% Cotton Brown Jersey, Blended Brown Jersey, Knit Wrist Brown and Natural Select, Premium and Double Palm Leather, Driver's Style, Linesmen Protector  
 Unsupported Long Cuff Flock Lined and Unlined Latex, Nitrile and Neoprene  
 Traditional Food Service PE Gloves

\*PF in glove type denotes a Powder Free glove and PD in glove type denotes a Powdered glove

