Sterilizing your reusable plastic labware

Chemicals and other sterilization methods can affect the strength, flexibility, surface appearance, color, dimensions or weight various plastics differently. These changes can include:



Stress on the polymer chain, with resultant reduction in physical properties



Physical change, including absorption of solvents



Stress cracking from internal and external stresses such as pressure or heat

Not all plastic can be sterilized in the same way. This chart will help you decide on a sterilization method to protect you, your Nalgene Labware, and your research.

	protoot	you, your Nalgene Labware, and your research. Sterilization Method					LIV light
Resin type	Abbreviation	Autoclaving	EtO gas	Dry Heat	Radiation	Disinfectants	UV light resistance
Ethylene Tetrafluoroethylene	ETFE	*	*		*	*	
Fluorinated Ethyene Propylene	FEP	*	*	*		*	
Fluorinated High-Density Polyethylene	FLPE		*		*	*	
High-Density Polyethylene	HDPE		*		*	*	
Low-Density Polyethylene	LDPE		*		*	*	
Polycarbonate	PC	*	*		*		
Polyethylene terephthalate copolymer	PETG		*		*		
Perfluoroalkoxy	PFA	*	*	*		*	
Polymethulemethacrylate	РММА				*		
Polymethylpentene	РМР	*	*			*	
Polypropylene	PP	*	*			*	
Polypropylene Copolymer	PPCO	*	*			*	
Polystyrene	PS		*		*		
Polysulfone	PSF	*	*	*	*	*	
ResMer™	ResMer™	*	*		*		
Silcone Gaskets	SILI-g	*	*	*	*	*	
Thermoplastic Elastomer	TPE	*	*		*		
Silicone-Tubing 50/65	SILI-t 50/65	*	*	*	*		
Polyvinyl Chloride DEHP-free	NP PVC	*	*				
Thermoplastic Polyurethane 280	PURS 280		*				
Low-Density Polyethylene 489	LLDPE 489		*				
Polypropylene 689	PP 689	*	*				
Perfluoroalkoxy 870	PFA 870	*	*	*		*	
Fluorinated Ethyene Propylene 890	FEP 890	*	*	*		*	*
Polyvinyl Chloride 980	PVC 980		*				
Excellent Good Fair A Poor							

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