## thermo scientific

## 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

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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.

Decis trucc	Abbreviation	Sterilization Method					UV light
Resin type		Autoclaving	EtO gas	Dry Heat	Radiation	Disinfectants	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	РР	*	*			*	
Polypropylene Copolymer	РРСО	*	*			*	
Polystyrene	PS		*		*		
Polysulfone	PSF	*	*	*	*	*	
ResMer™	ResMer™	*	*		*		
Silcone Gaskets	SILI-g	*	*	*	*	*	
Thermoplastic Elastomer	TPE	*	*		*		
Silicone-Tubing 50/65	SILI-t 50/65	*	*	*	*		
Polyvinyl Chloride 180	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		*				
		🔶 Excelle	ent 🔵 G	Good	Fair 🔺	Poor	

## thermofisher.com/reusablelabware

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