

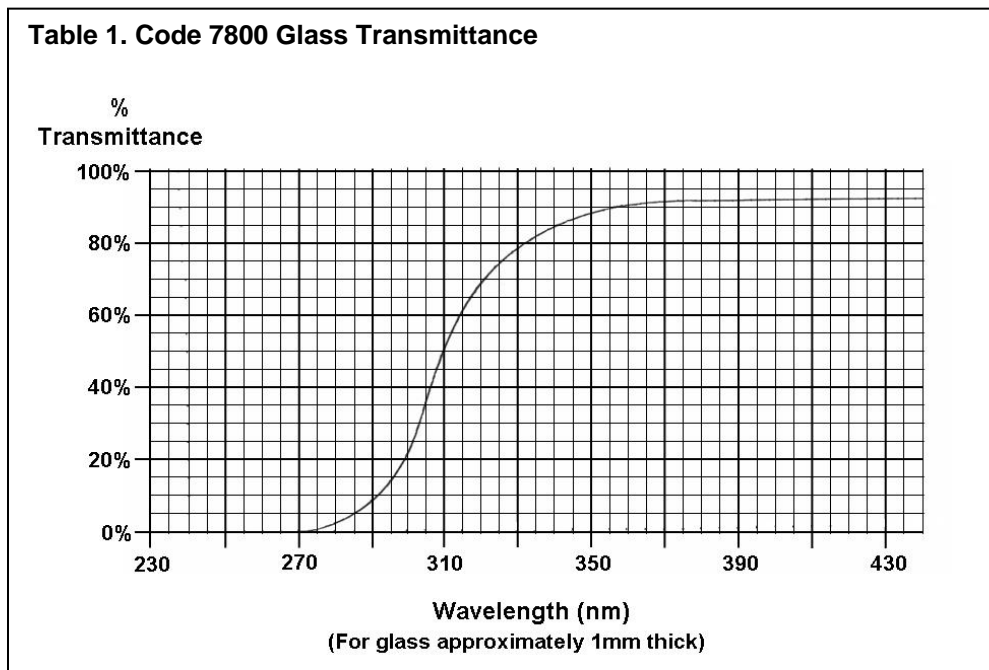
# Properties of Code 7800 Pharmaceutical Glass



## Introduction

Code 7800 pharmaceutical glass, with a slightly higher expansion rate than PYREX<sup>®</sup> Code 7740 glass, is used for some pipets and culture tubes because it does not significantly alter the pH of solutions that it contacts.

## Light Transmittance



## Standards

Code 7800 glass is Type I, Class B Borosilicate glass conforming to federal specification DD-G-541b and ASTM E-438. It also meets the U.S. Pharmacopoeia specifications for Type I Borosilicate Glass.

Table 2. Physical Properties and Chemical Composition of Code 7800 Glass			
Properties		Composition (%approx.)	
Coefficient of Expansion	$55 \times 10^{-7} \text{cm/cm/}^\circ\text{C}$	SiO <sub>2</sub>	73%
Strain Point	517°C	B <sub>2</sub> O <sub>3</sub>	10%
Anneal Point	565°C	Na <sub>2</sub> O	2%
Softening Point	789°C	Al <sub>2</sub> O <sub>3</sub>	7%
Density	2.33 g/cm <sup>3</sup>	K <sub>2</sub> O	2%
Young's Modulus	$7.2 \times 10^3 \text{ kg/mm}^2$	BaO	<0.1%
Refractive Index	1.490 @ Sodium D Line	CaO	0.7%
Temperature Limits	200°C (Normal Service)		
Maximum Thermal Shock	115°C		
Warnings			
<ol style="list-style-type: none"><li>1. Alkalis at elevated temperatures will etch glass.</li><li>2. Do not use hydrofluoric or hot phosphoric acid in glass.</li><li>3. Do not use scratched or abraded glassware.</li><li>4. Will not seal to Type 7740 glass.</li></ol>			

For additional product or technical information, please visit our web site at [www.corning.com/lifesciences](http://www.corning.com/lifesciences) or call at 1.800.492.1110. International customers can call at 978.635.2200.

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