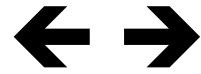


GLASS

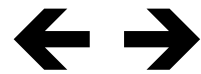
PROPERTIES



PERFORMANCE



COMPOSITION
& STRUCTURE



SYNTHESIS &
PROCESSING

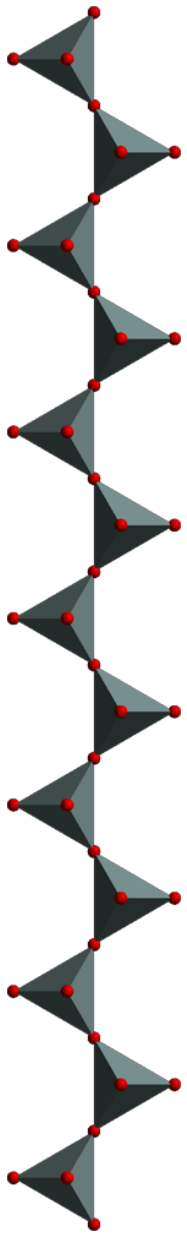


Figure 9.2
Tetrahedral
Silica Crystal

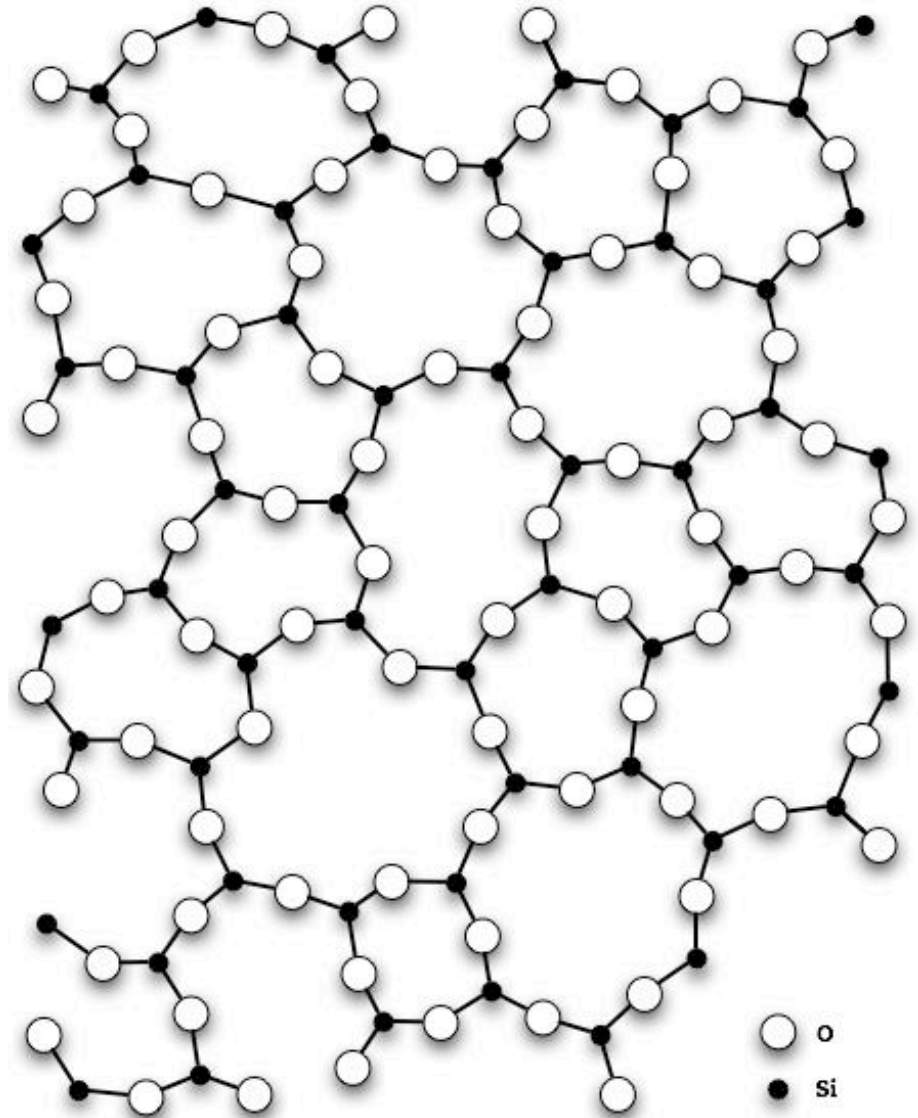


Figure 10.2 amorphous silica

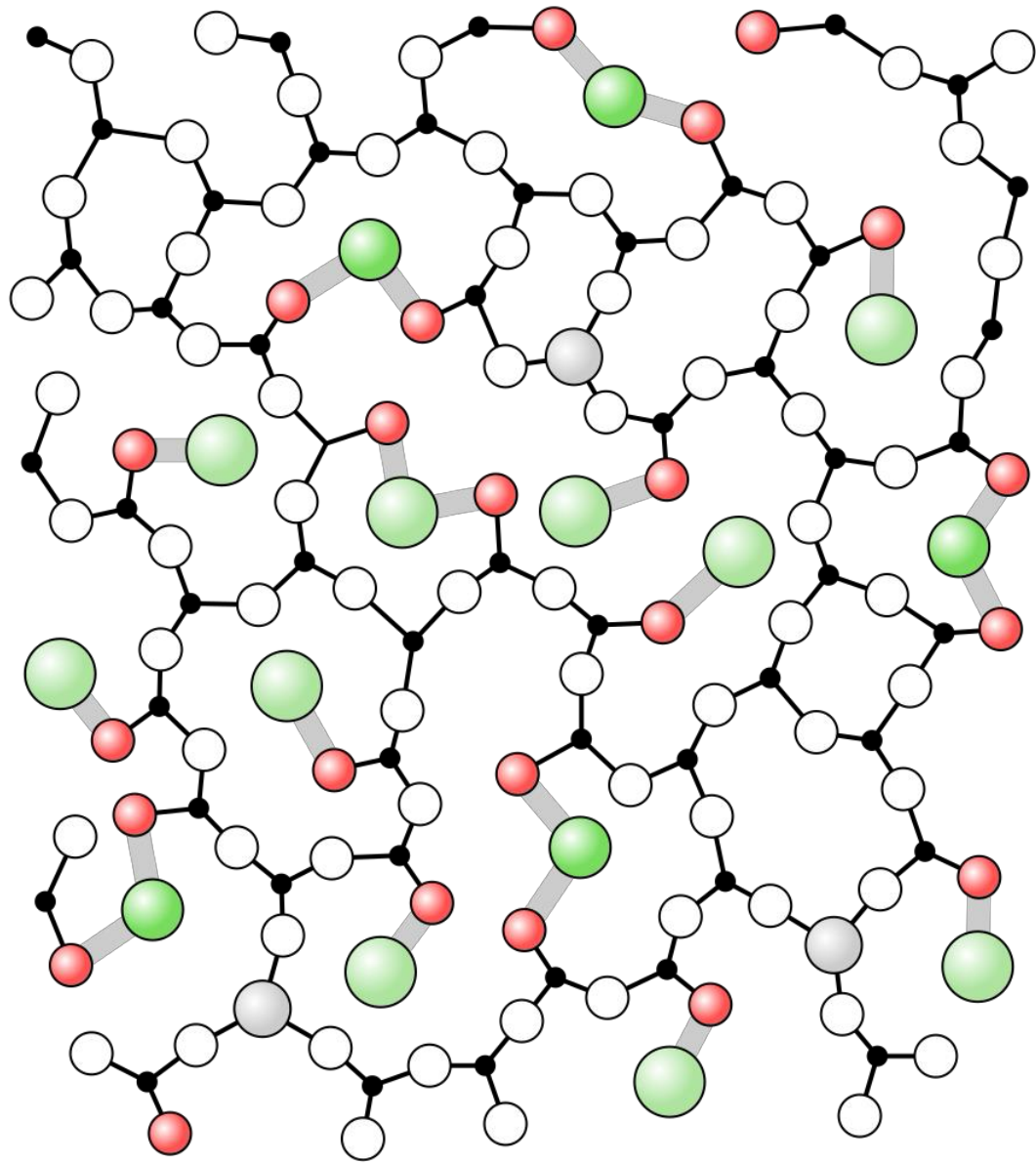


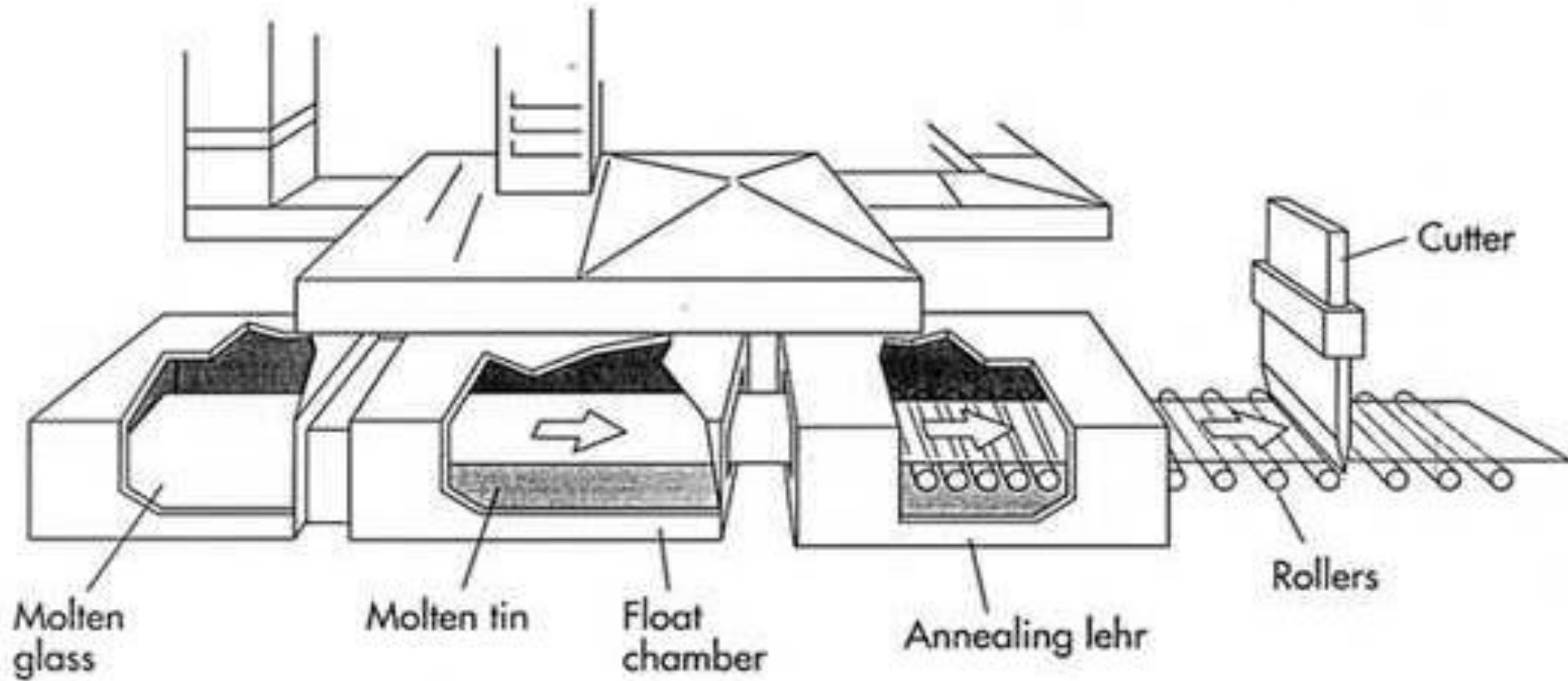
Figure 10.2 soda lime glass



glass fusing

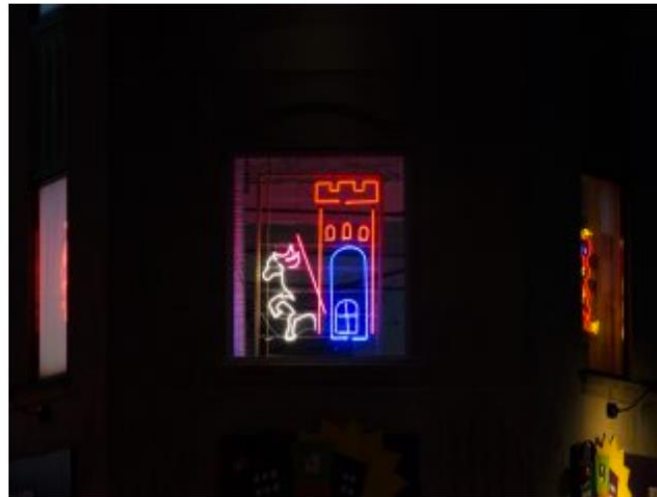
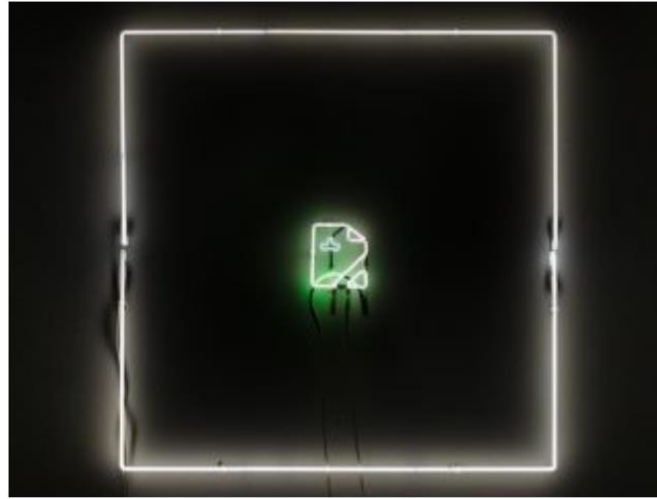
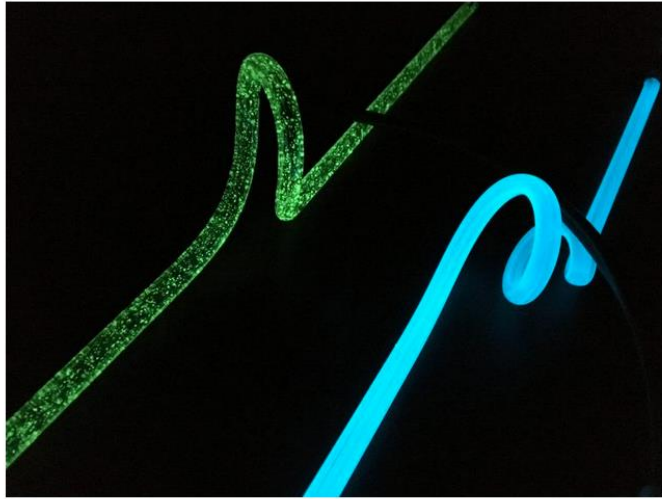


Glass



How Everyday Things Are Made / Gale Publishing

UW-MADISON GLASS LAB Founded in 1962 by Harvey Littleton, the UW-Madison Glass Lab was the first collegiate glass program in the nation, and is considered by many to be the birthplace of American Studio Glass.



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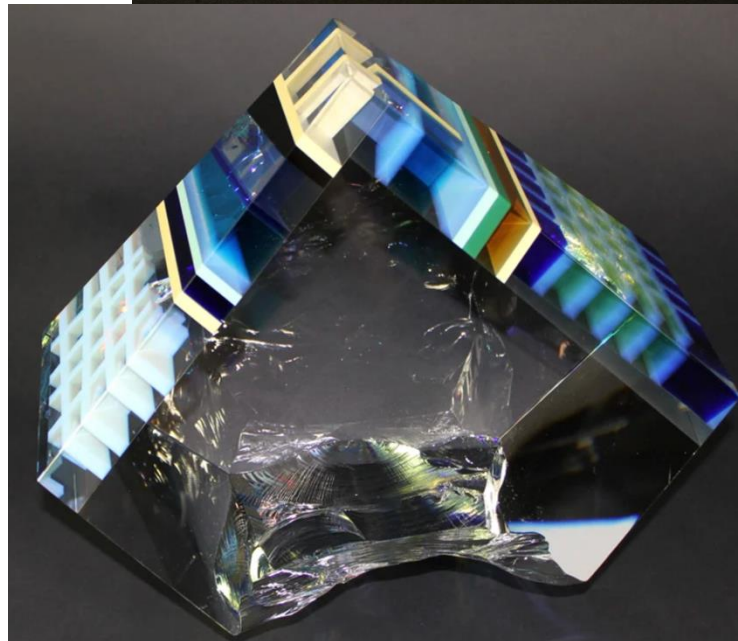
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Bergstrom-Mahler Museum's
portable mini-dragon
runs on propane tank



comparison of common glasses

	<u>soda lime</u>	<u>Pyrex</u>	
composition	73%	81%	SiO ₂
		13%	B ₂ O ₃
	14	4%	Na ₂ O
	7		CaO
	4		MgO
	2	2%	Al ₂ O ₃
expansion	89	32.5	nm expansion/cm length * °C
softening point	724°C	821°C	<u>silica</u> 1530°C
annealing	545°C	560°C	1020°C