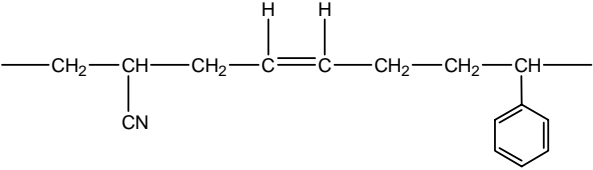
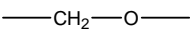
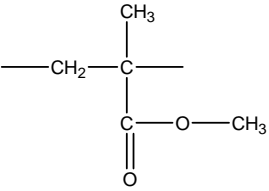
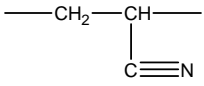
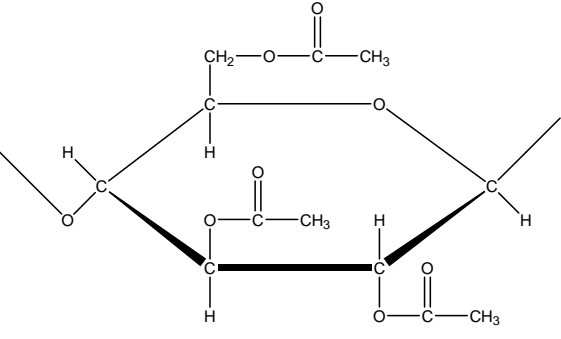
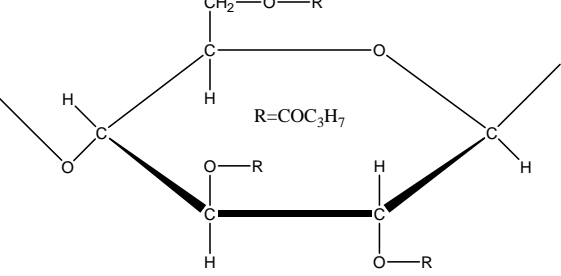
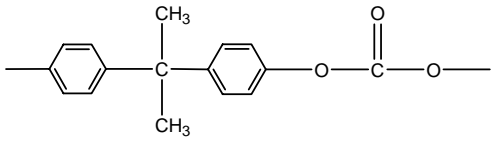
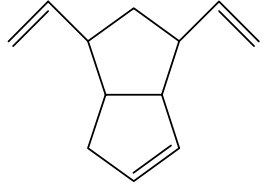
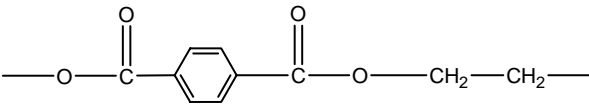
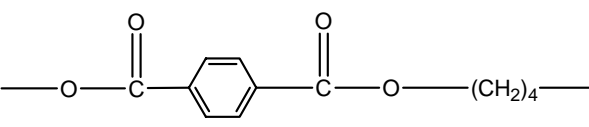
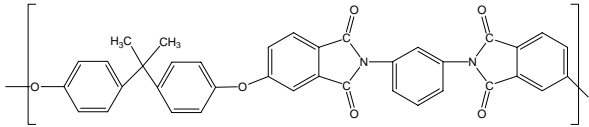
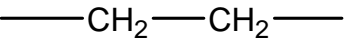
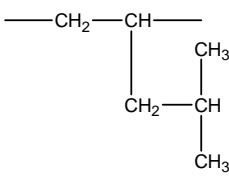
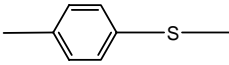
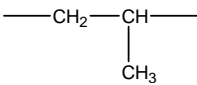
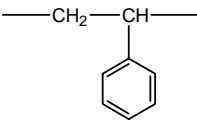
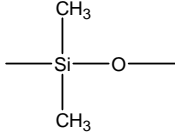
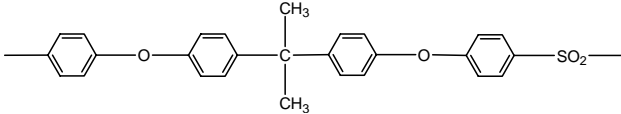


## A Guide to Polymer Thermal Properties

Polymer	Structure	T <sub>g</sub> (°C)*	T <sub>m</sub> (°C)*	Notes
Acrylonitrile-butadiene-styrene copolymer		88 – 120	NA	
Poly(acetal)			181	
Poly(methyl methacrylate)		105		
Poly(arylonitrile)		95	135	
Poly(Cellulose acetate)			230	
Poly(cellulose butyrate)			140	
Chlorinated poly(ethylene)			125	

Poly(chlorotrifluoroethylene)	$\begin{array}{c} \text{F} \quad \text{F} \\   \quad   \\ \text{---C---C---} \\   \quad   \\ \text{F} \quad \text{Cl} \end{array}$	150	215	
Poly(tetrafluoroethylene)	$\begin{array}{c} \text{F} \quad \text{F} \\   \quad   \\ \text{---C---C---} \\   \quad   \\ \text{F} \quad \text{F} \end{array}$	127	326-336	
Poly(vinylidene fluoride)	$\begin{array}{c} \text{F} \\   \\ \text{---CH}_2\text{---C---} \\   \\ \text{F} \end{array}$	-20	178	
Poly(arylene ether ketone)		87	323	
Nylon 6	$\text{---NH(CH}_2\text{)}_5\overset{\text{O}}{\parallel}\text{C---}$	55 <sup>1</sup>	220	<sup>1</sup> Estimated
Nylon 6,6	$\text{---NH(CH}_2\text{)}_6\text{NHC(=O)(CH}_2\text{)}_4\text{C(=O)---}$	55	265	
Nylon 6,10	$\text{---NH(CH}_2\text{)}_6\text{NHC(=O)(CH}_2\text{)}_8\text{C(=O)---}$	55	220	
Nylon 6,12	$\text{---NH(CH}_2\text{)}_6\text{NHC(=O)(CH}_2\text{)}_{10}\text{C(=O)---}$	55	219	
Nylon 11	$\text{---NH(CH}_2\text{)}_{10}\overset{\text{O}}{\parallel}\text{C---}$	55	210	
Kevlar		>350		
Poly(butylene)	$\begin{array}{c} \text{---CH}_2\text{---CH---CH}_2\text{---} \\   \\ \text{CH}_3 \end{array}$	-73	126	

Poly(bisphenol A carbonate)		150		
Poly(dicyclopentadiene)		110 <sup>2</sup>		<sup>2</sup> Thermo set
Poly(ethylene terephthalate)		65	265	
Poly(butylene terephthalate)		60	232	
Poly(bisphenol A - etherimide)		219		
Poly(ethylene) HD		-120	135	
Poly(ethylene) LD		-120	115	
Poly(ethylene) LLD		-120	125	
Poly(ethylene) UHMWD		-120	135	
Poly(methyl-4-pentene)		60	240	
Poly(phenylene sulfide)		87	287	
Poly(propylene)		-13	170	
Poly(styrene)		100		

<p>PDMS</p>		<p>-125</p>	<p>-40</p>	
<p>Poly(bisphenol A - ether sulfone)</p>		<p>230</p>		