

# Technical differences between PC and Tritan™

## Important For Coatings and Adhesives

	Polycarbonate	Tritan
Surface Chemistry	Structure based largely on aromatic 6-membered rings	Structure based on aliphatic 6-membered rings
	Many COO groups	Less COO / More -O-
	Similar contact angle and surface energy	
	Similar solubility parameter (PC and Tritan are miscible)	
	Both use mold release	
Heat Resistance	Tg = 145C	Tg = 110 to 120C
	High flame resistance	Lower flame resistance
Mechanical Properties	Higher modulus	Lower modulus
	High residual stress (more shrinkage upon relieving stress)	Lower residual stress
	Similar coefficient of thermal expansion	