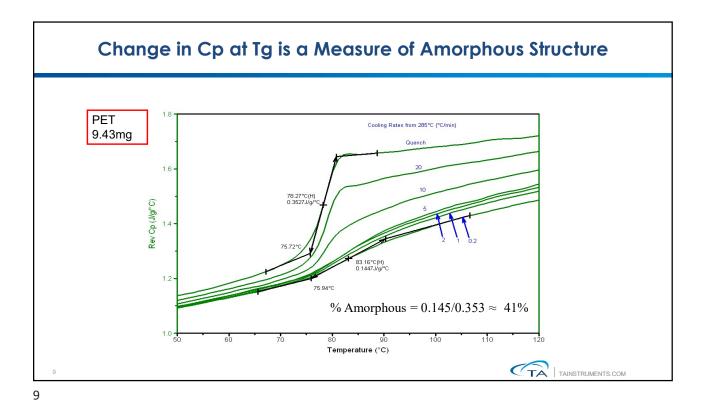
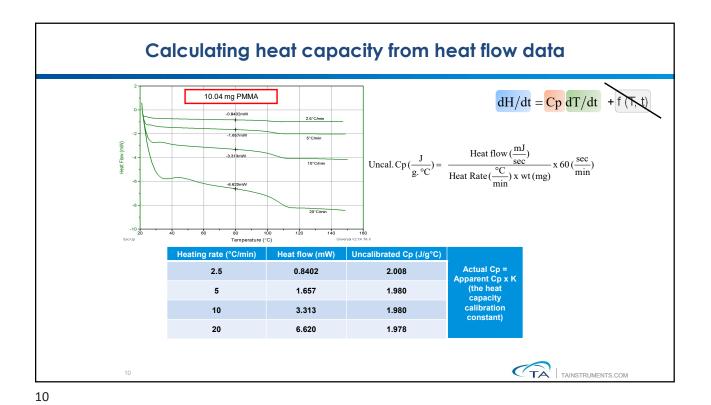


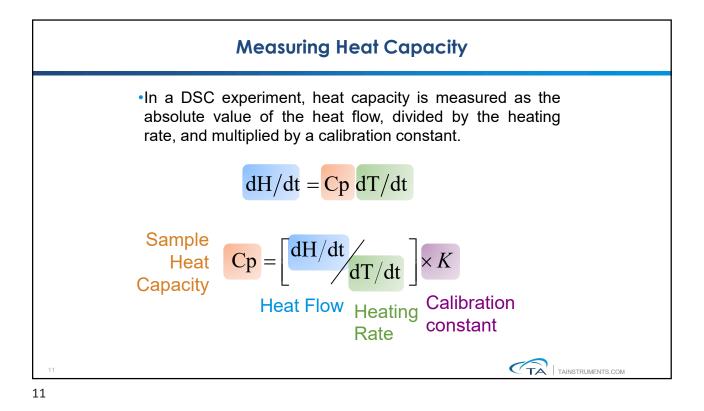
About Heat Capacity
Heat capacity is the amount of heat required to raise or lower the temperature of a material by 1°C.
Specific heat capacity (Cp) refers to a specific mass and temperature change for the material (J/g°C).
Heat capacity is directly related to molecular mobility
Cp increases as molecular mobility increases

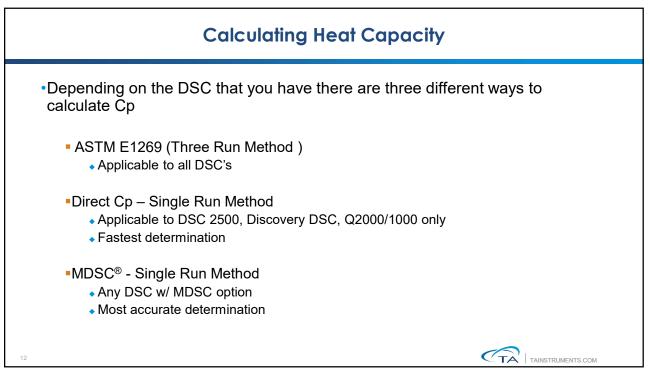
Higher Cp = More Mobility
Lower Cp = Less Mobility

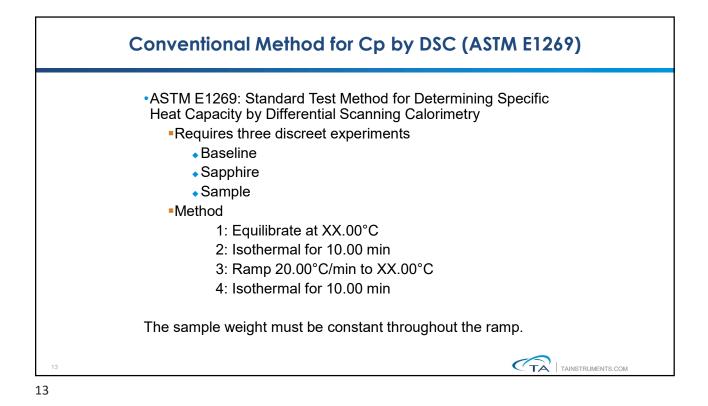
Quantitative indicator of structure and stability

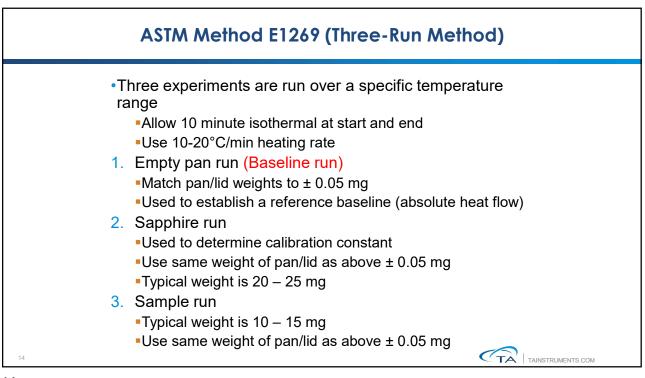


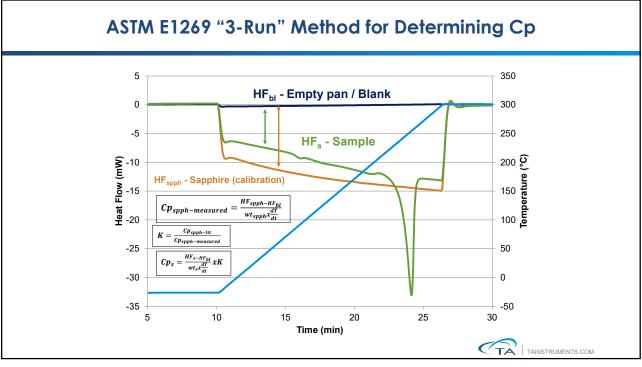


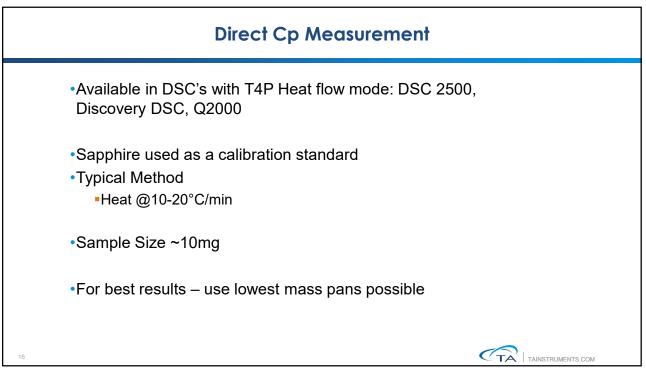


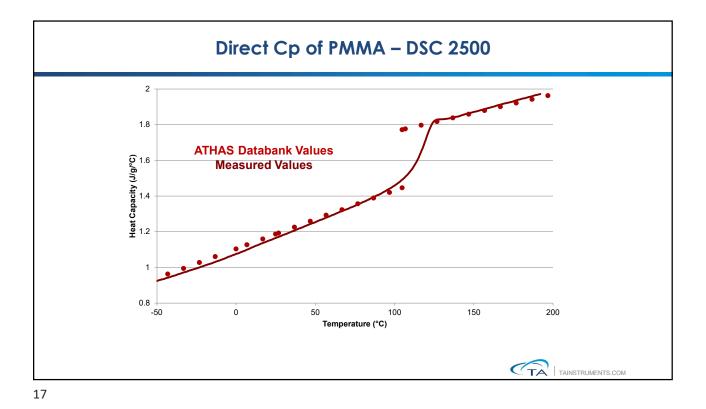


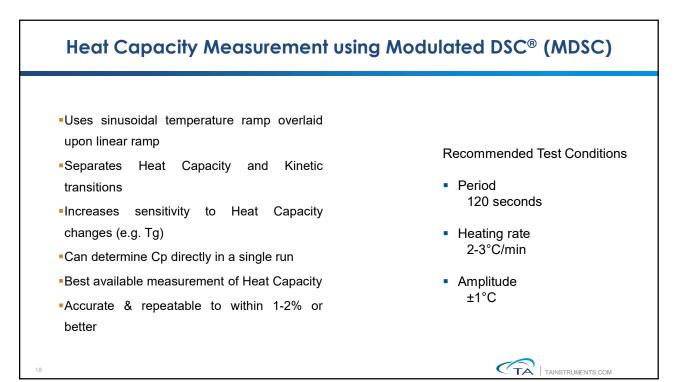


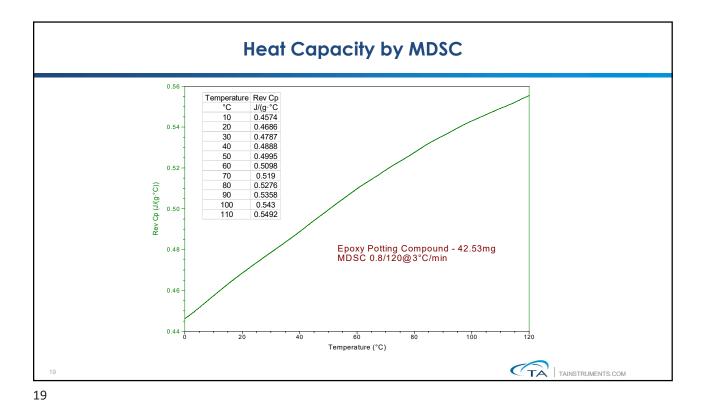


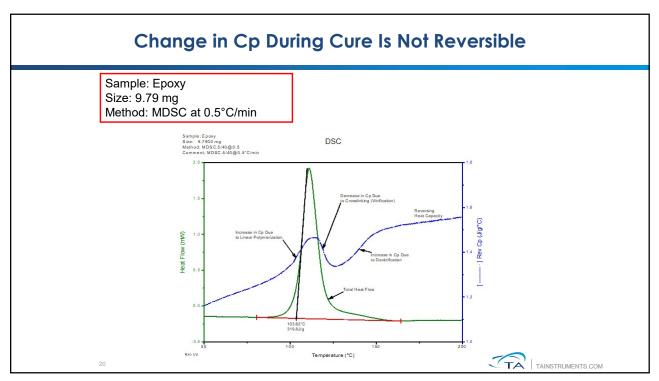


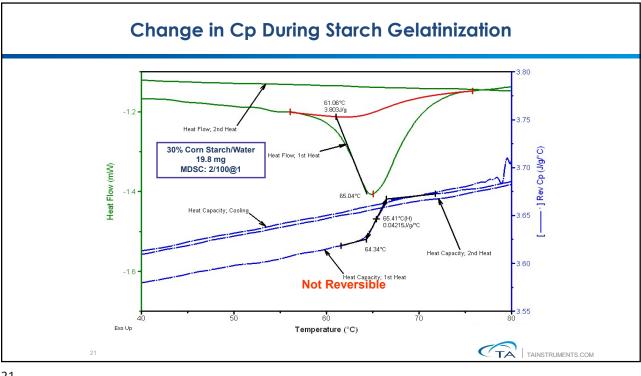




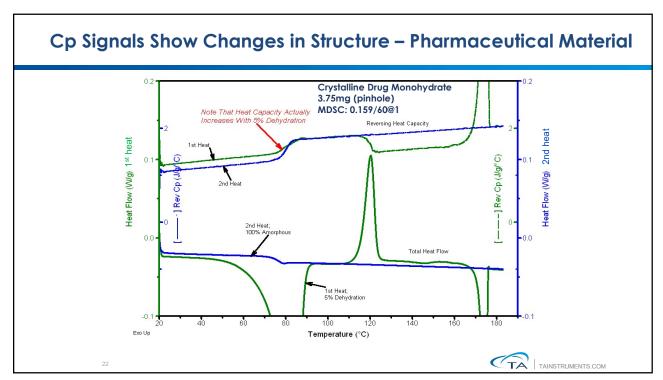


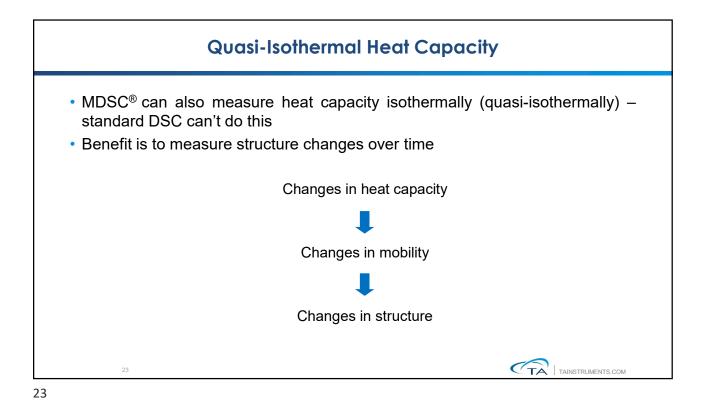


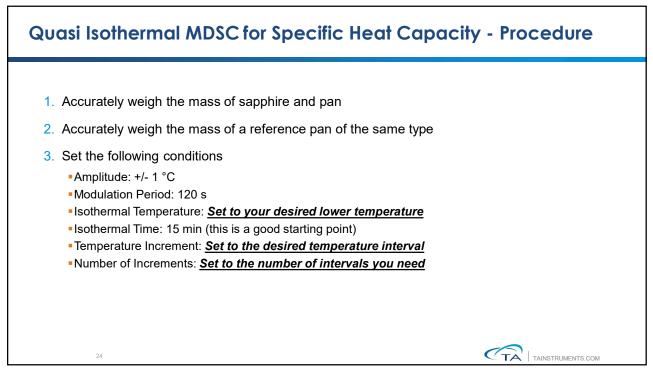




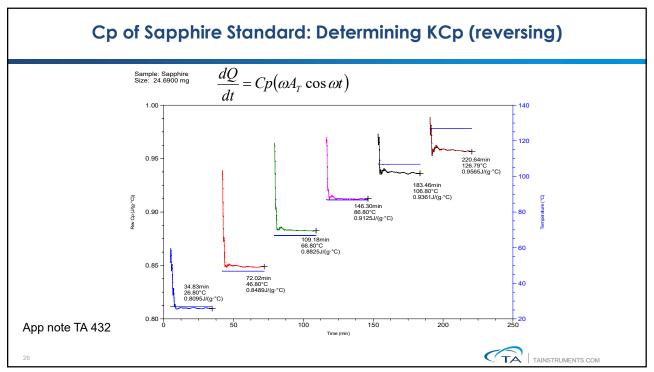


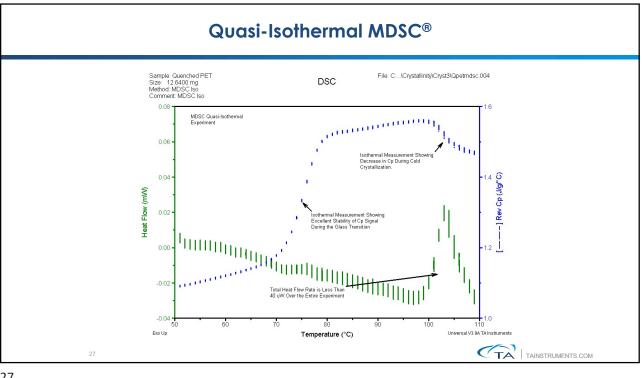


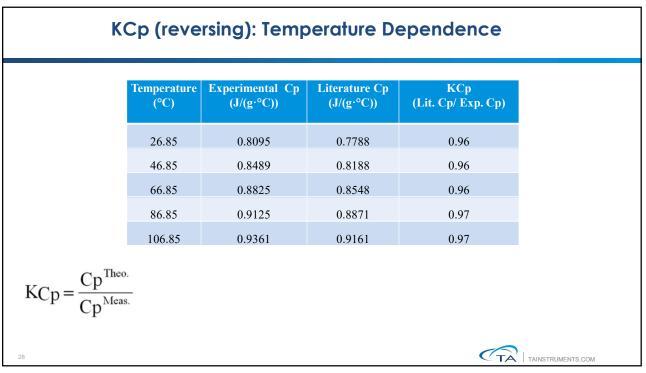


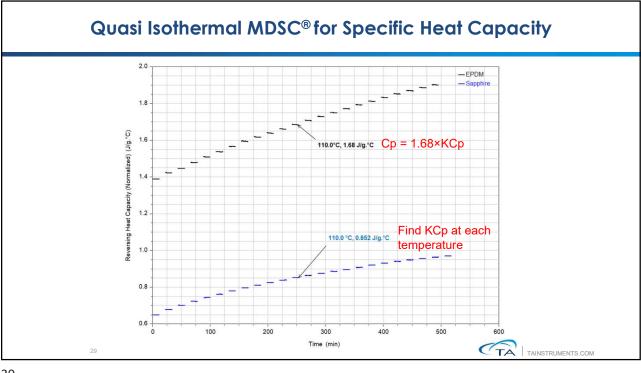


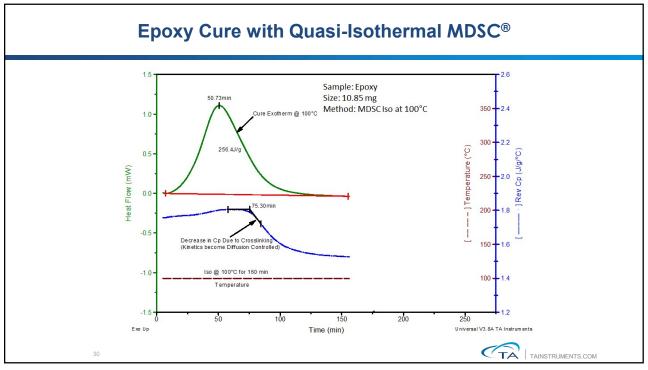
Quasi Isothermal MDSC for Specific Heat Capacity – Procedure in TRIOS					
(* F	Procedure		E		
N:	Mode Modulated MDSC Quasi-Isothermal	•	Test MDSC Quasi-Isothermal	•	
	Modulate Temperature Amplitude ±	120.0 s			
	Isothermal temperature Isothermal time Temperature increment Number of increments	10.00 °C 15.0 min 5.00 °C 8			
	Number of increments	8			
25					TRUMENTS.COM

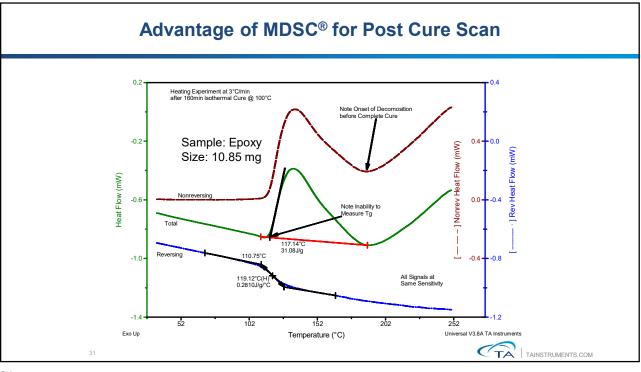


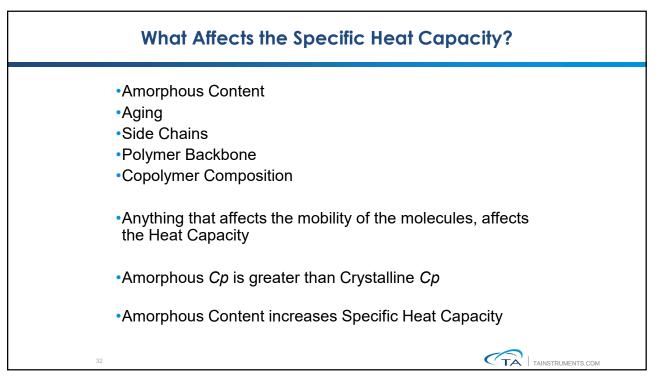


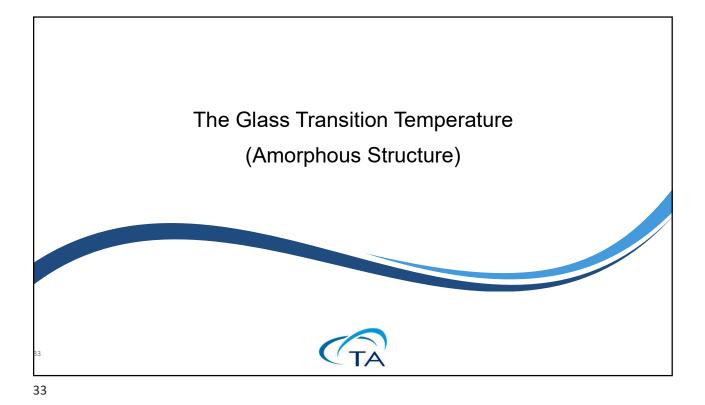


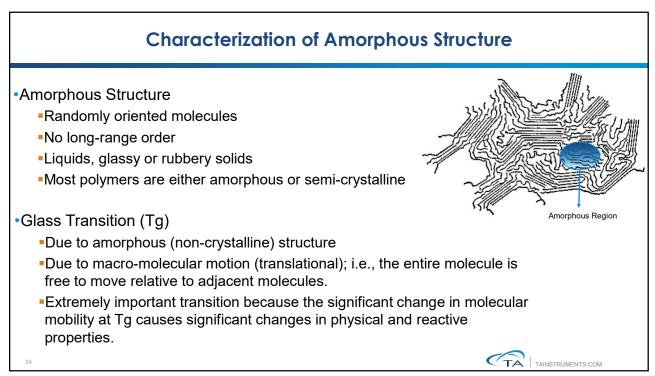


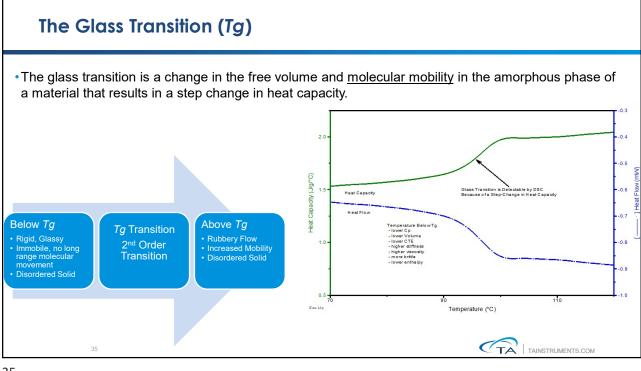


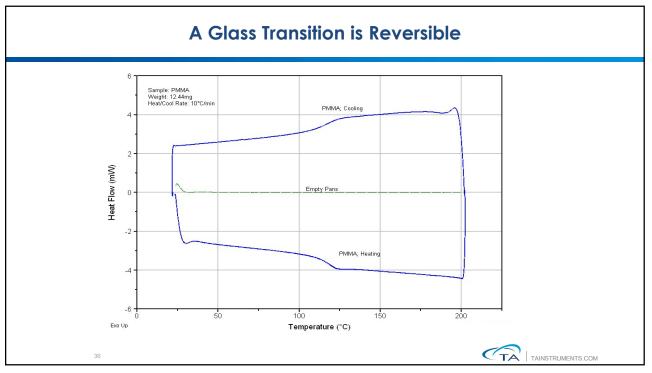


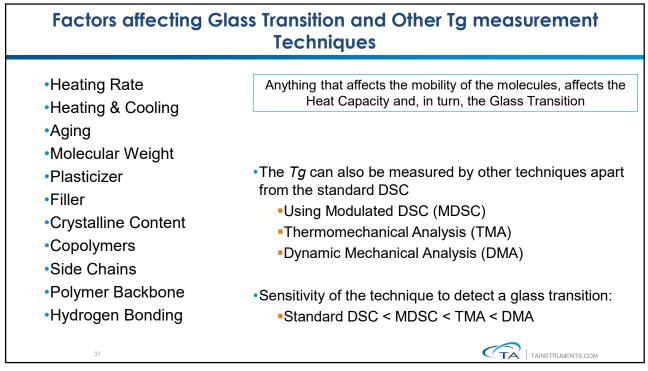


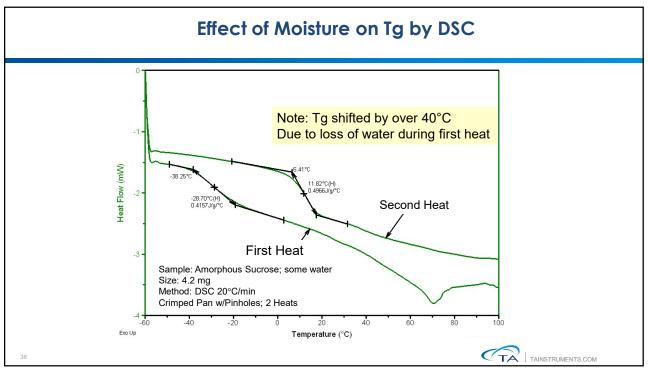


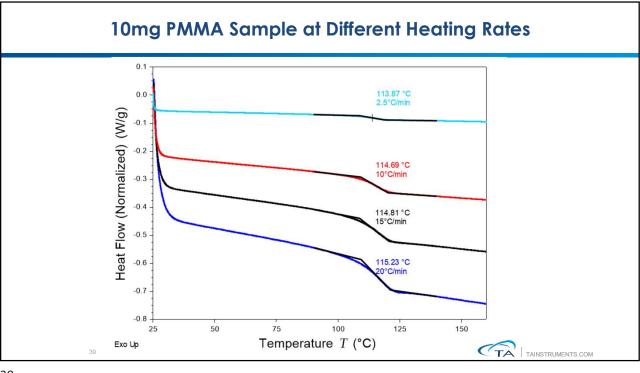


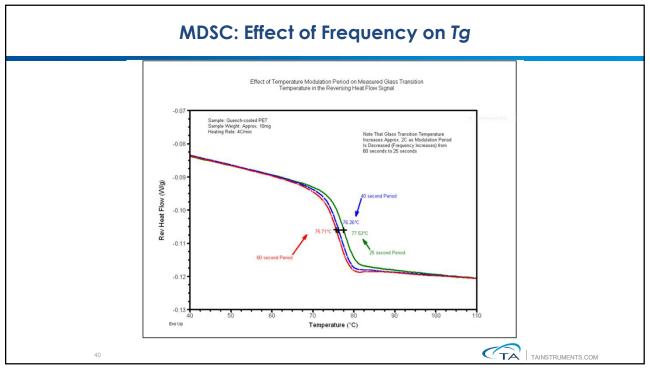


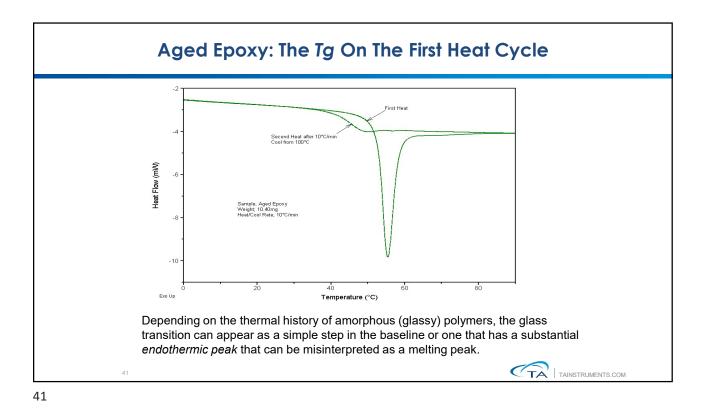


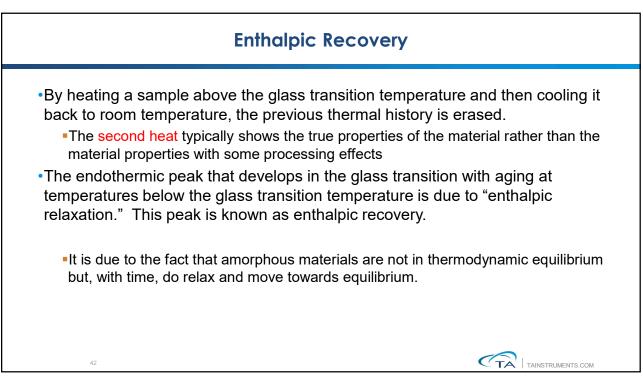


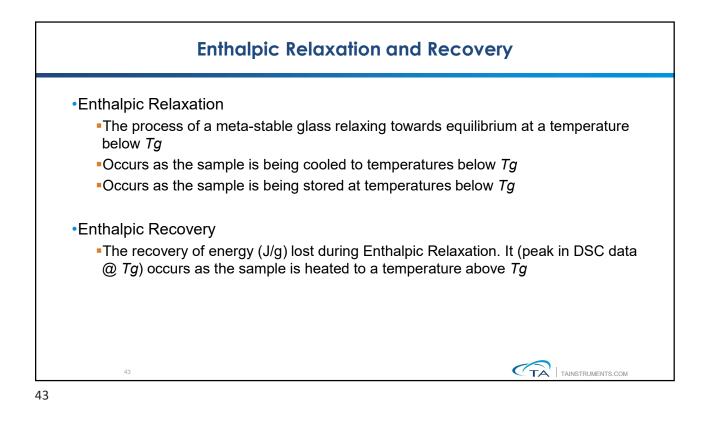


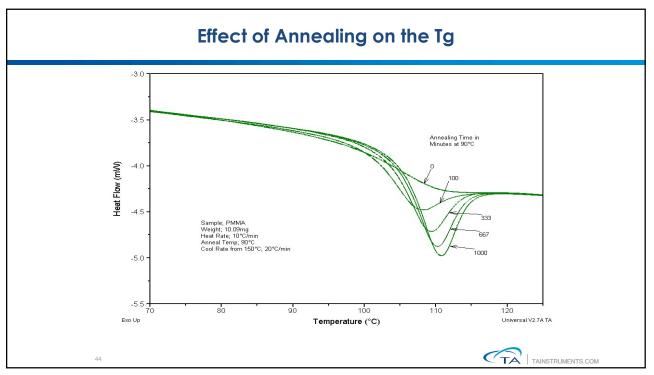


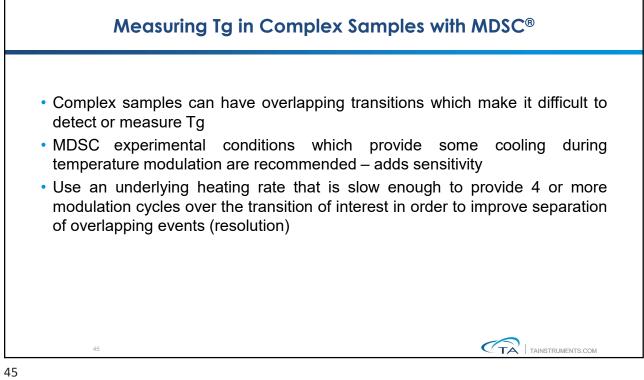




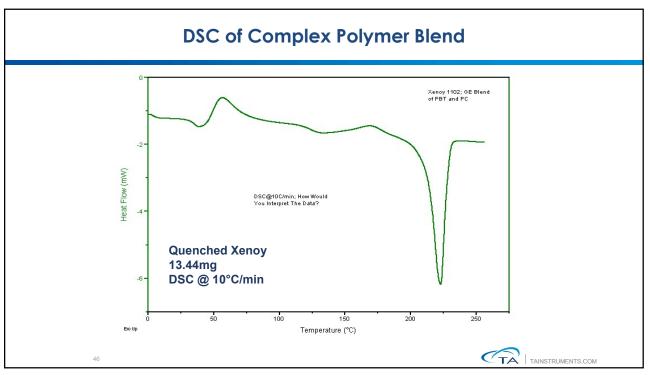


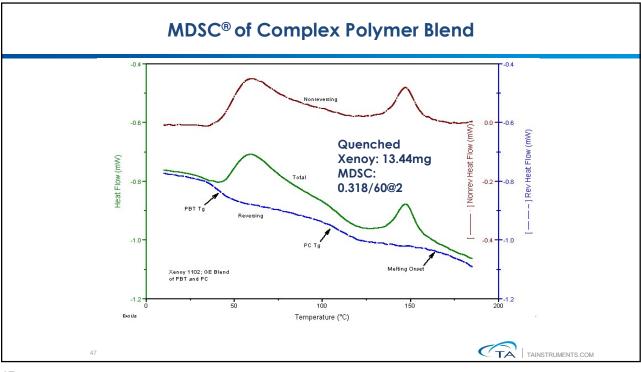


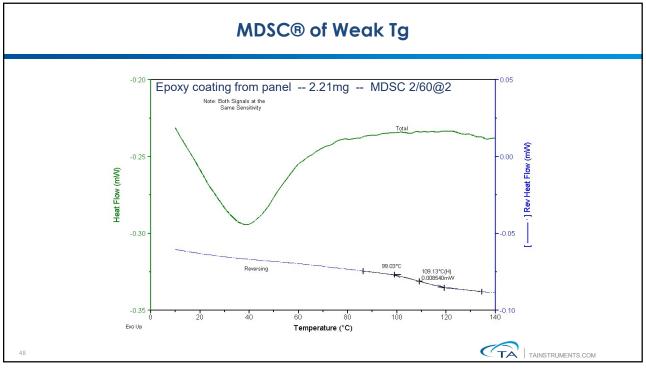


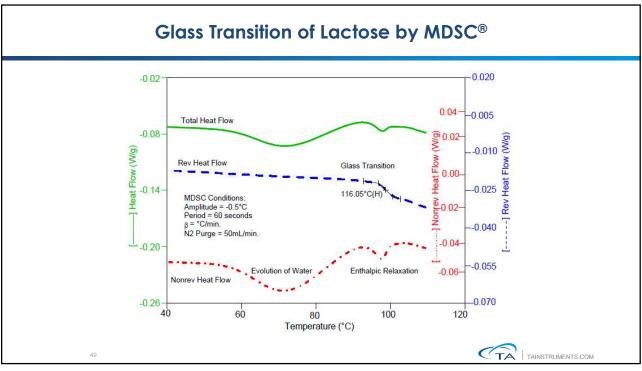


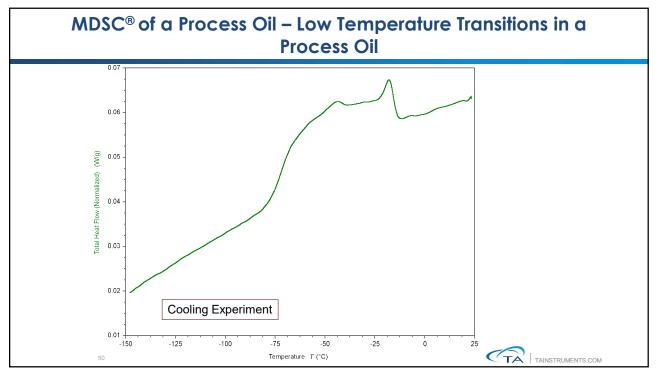


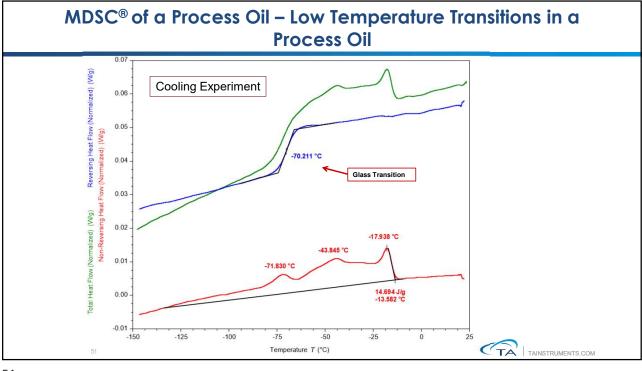


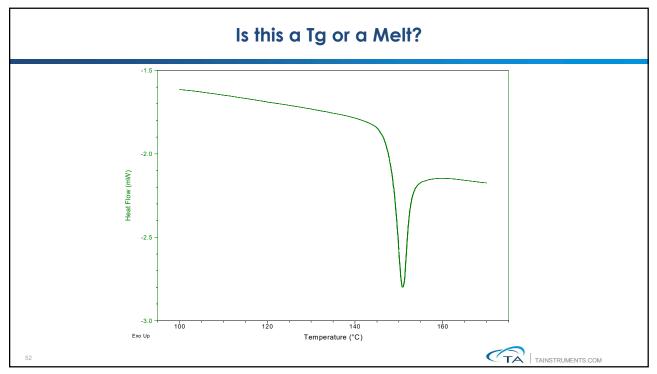


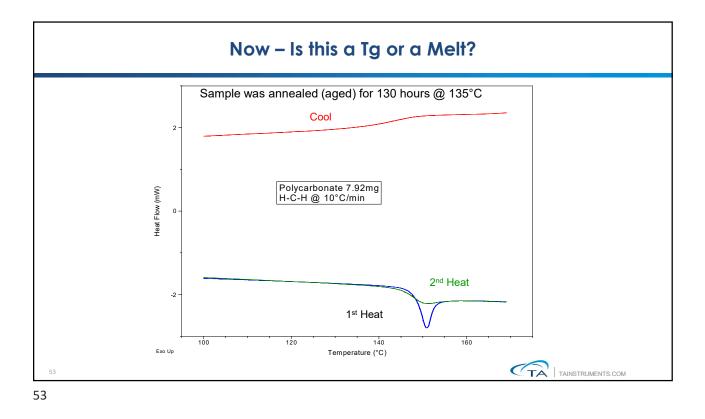


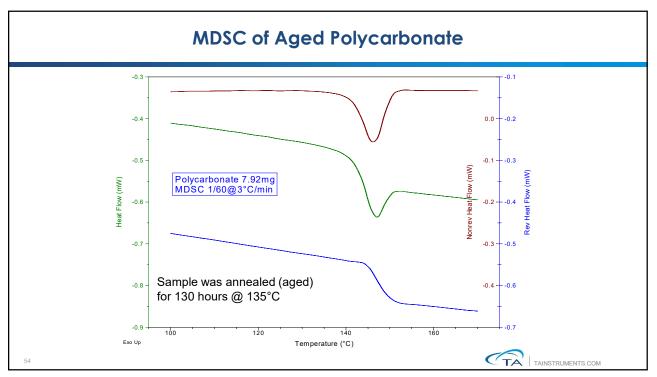


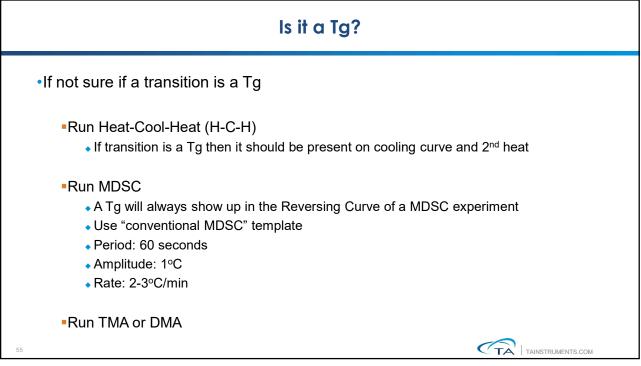




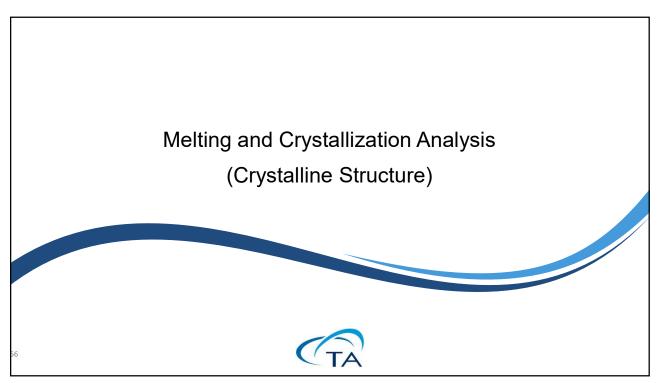


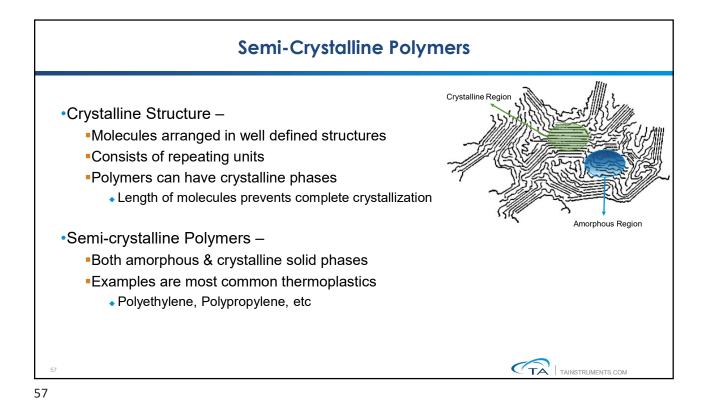


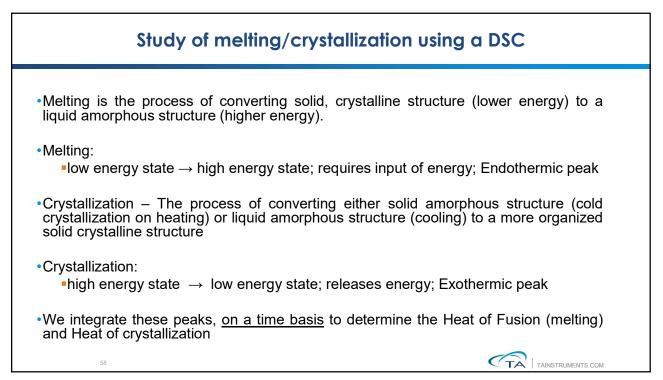


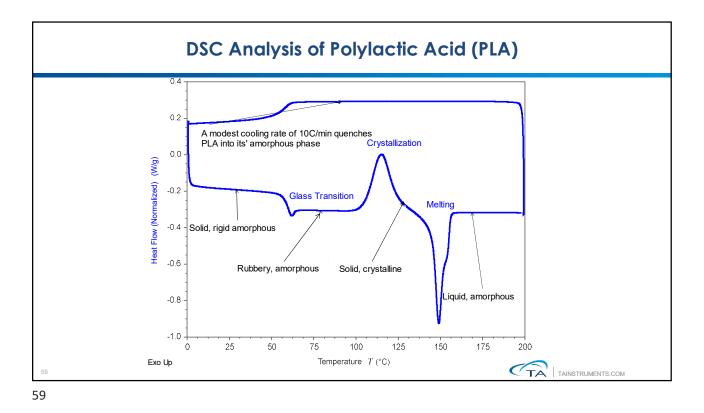


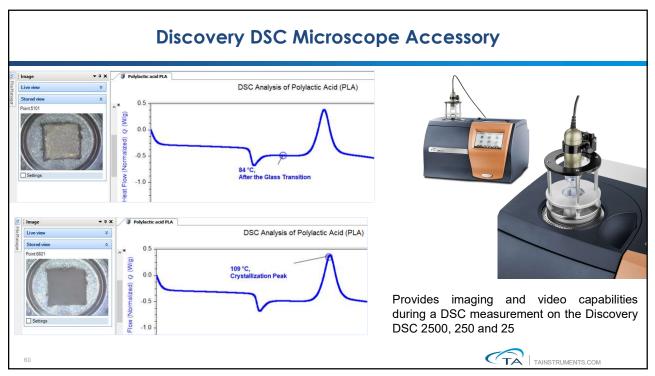


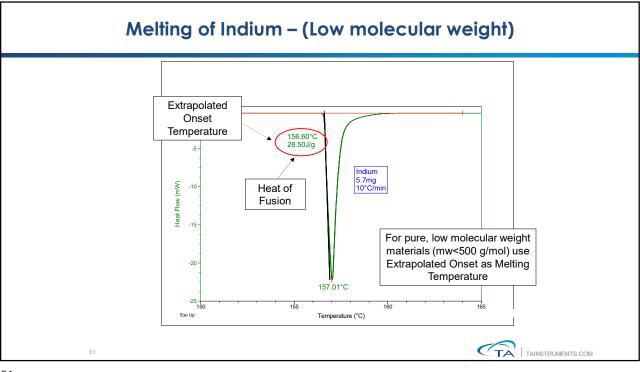


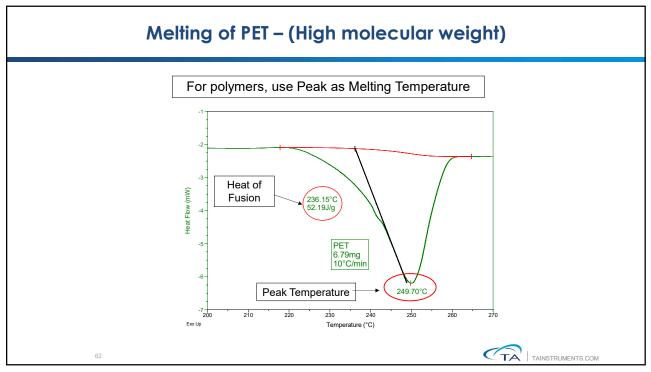


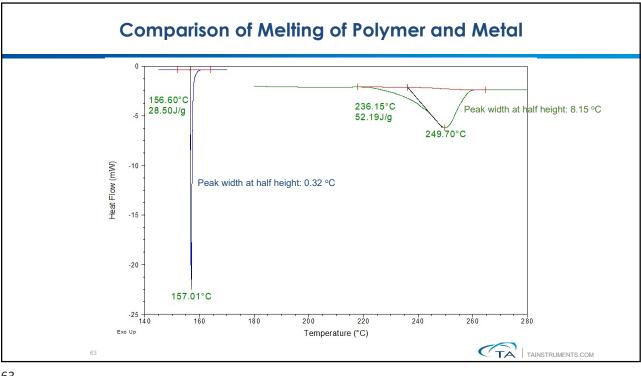




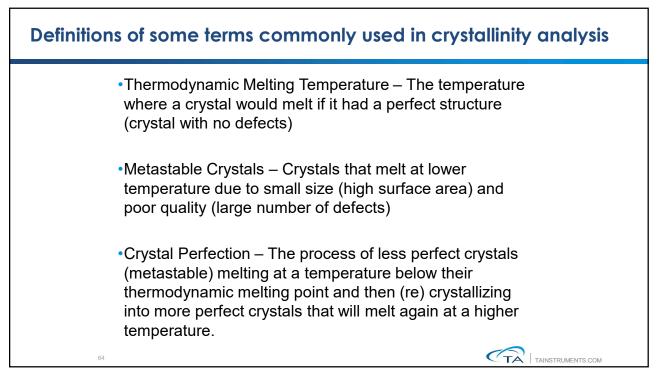


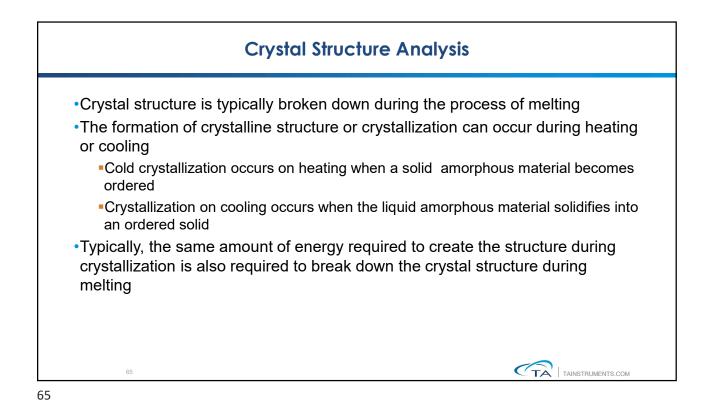


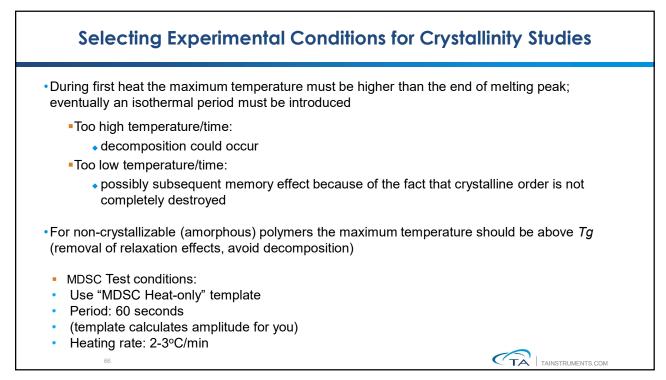


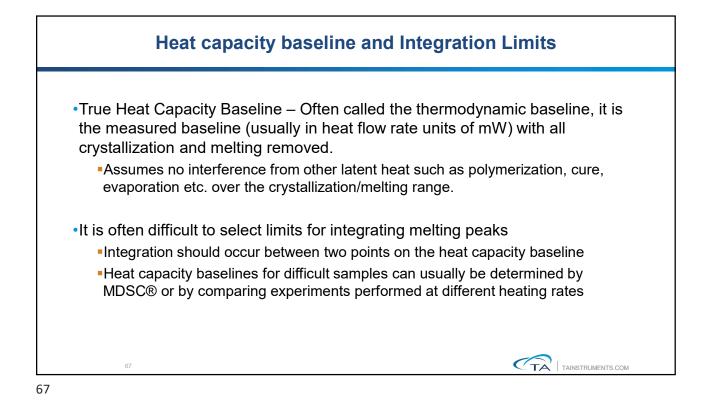


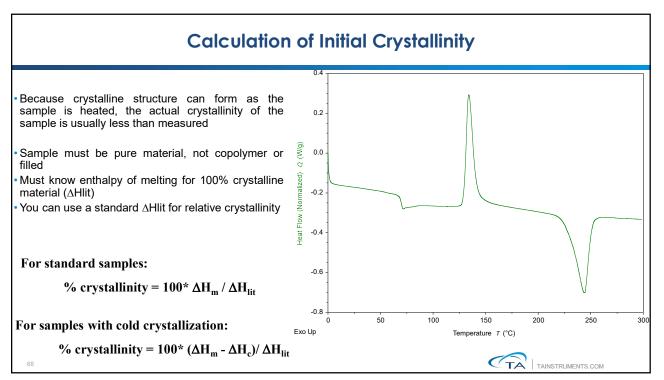


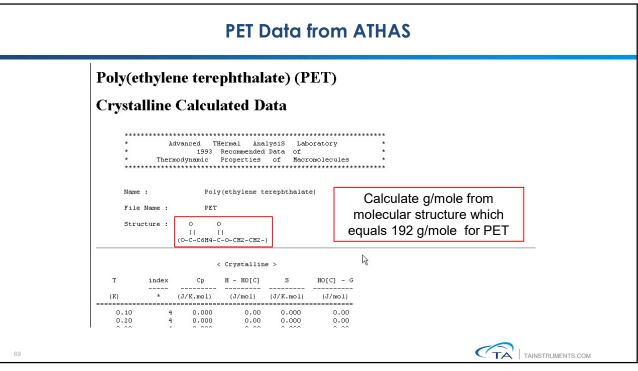


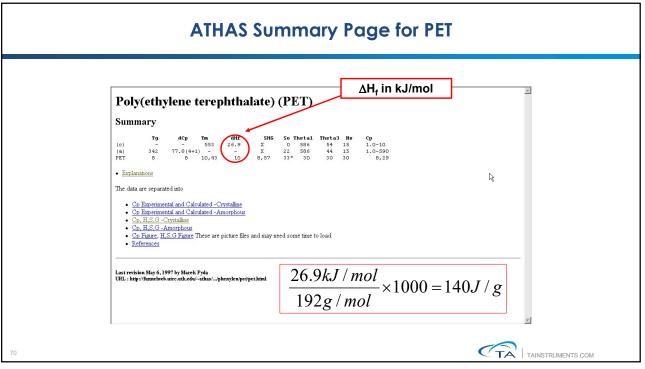


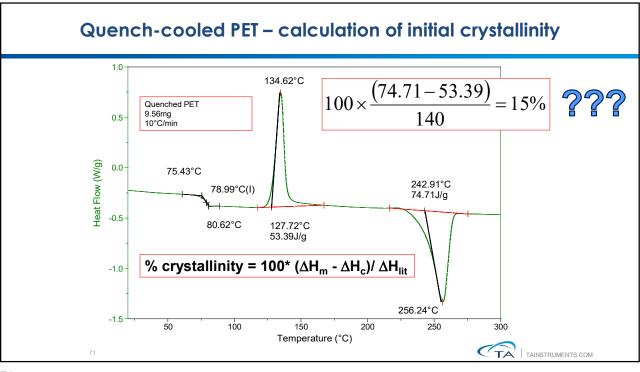


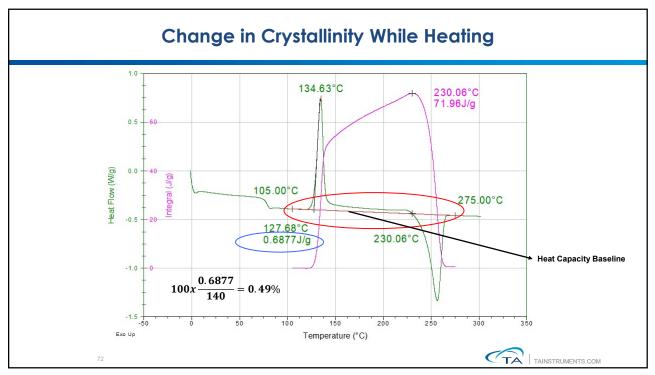


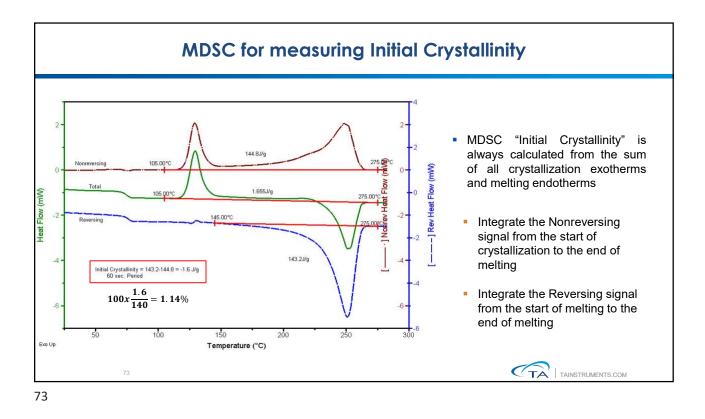


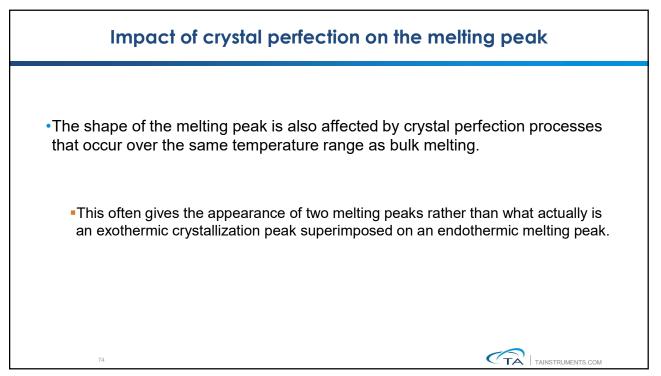


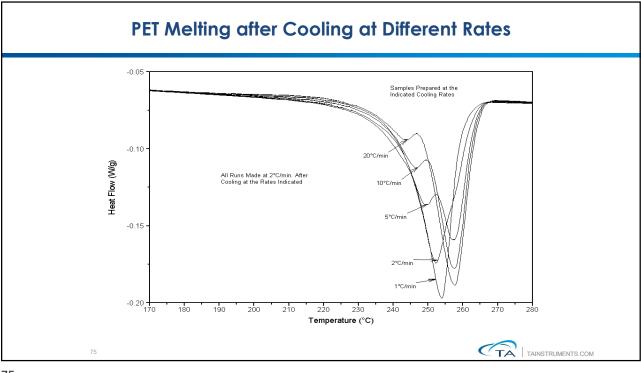




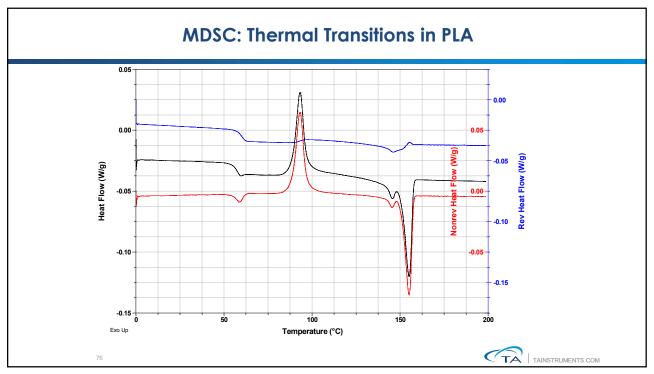


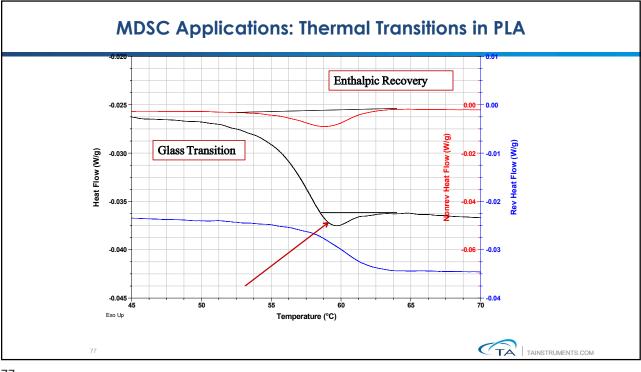




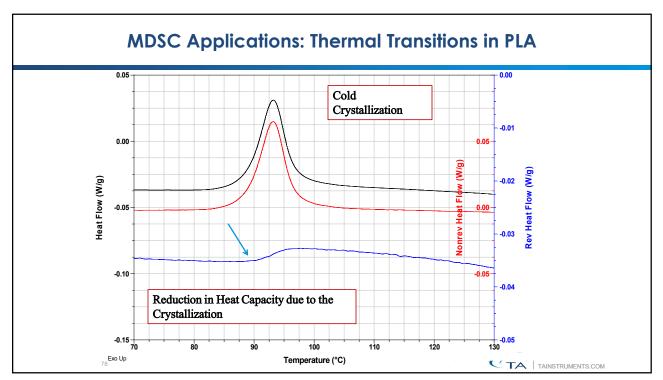


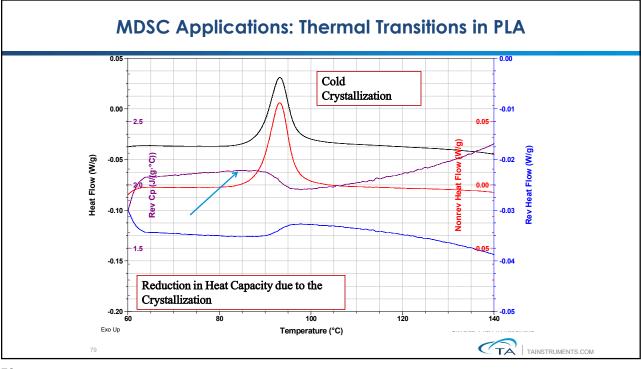


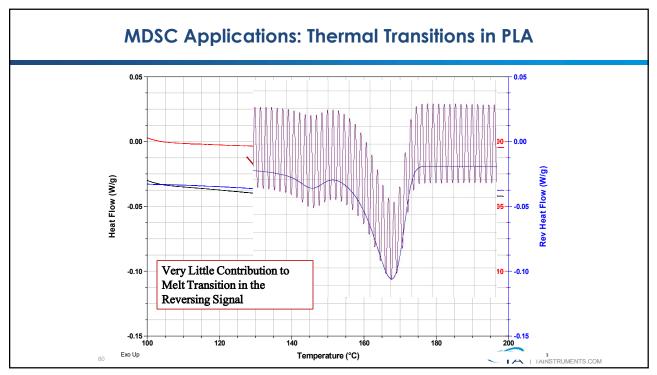


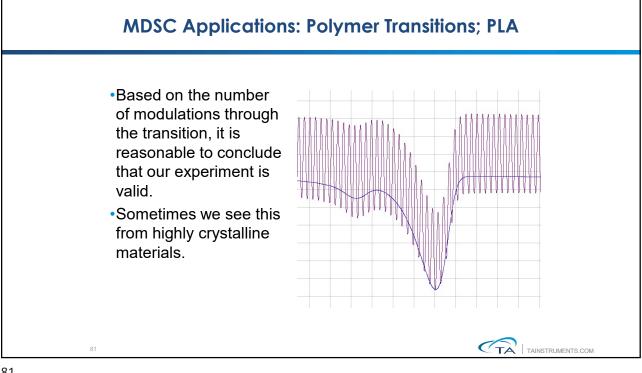


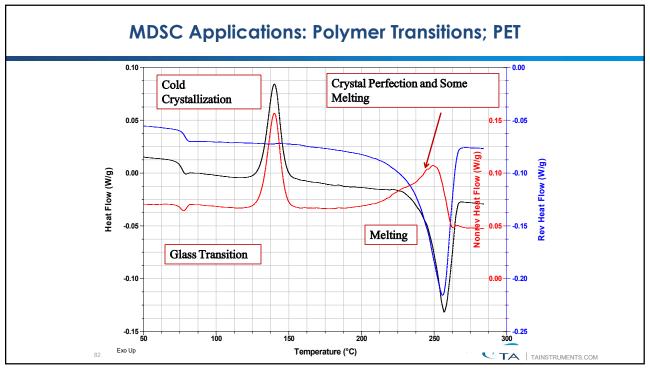


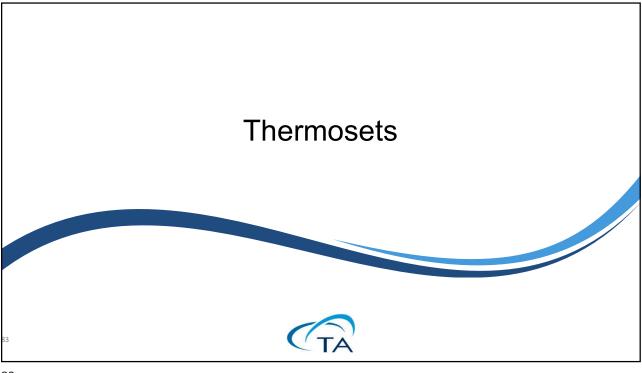


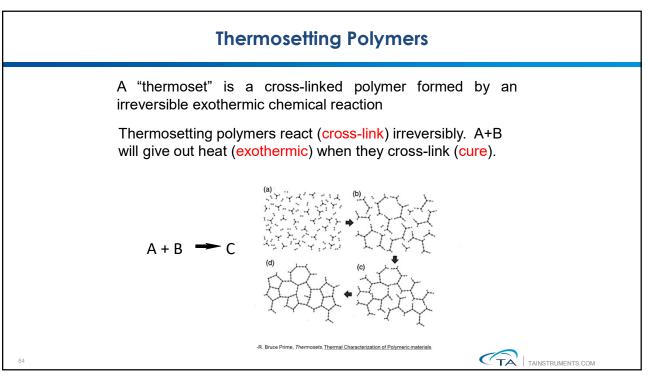


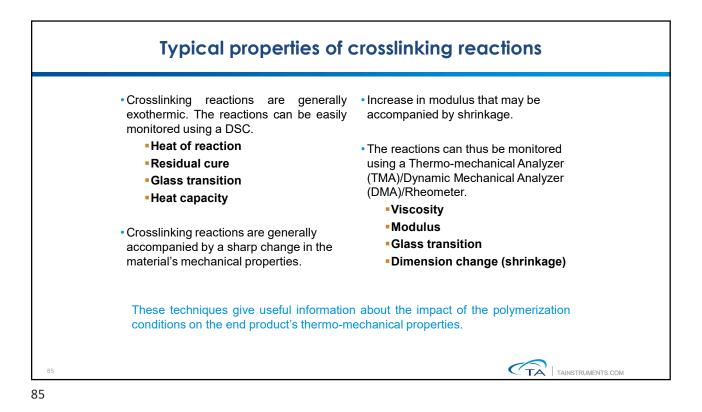


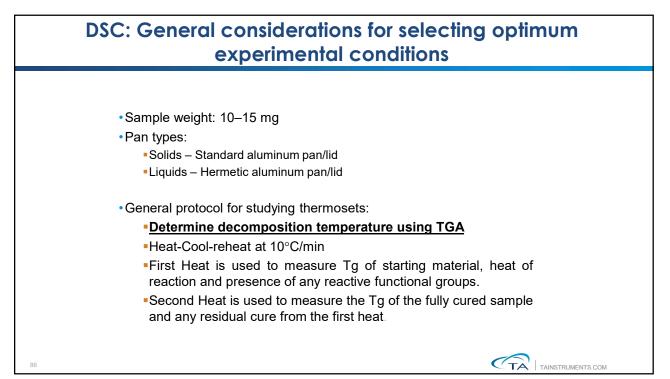


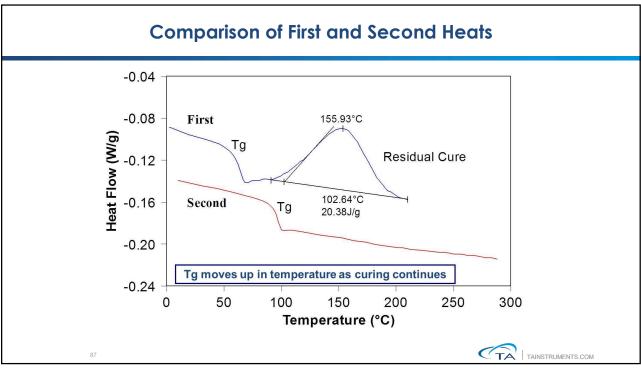


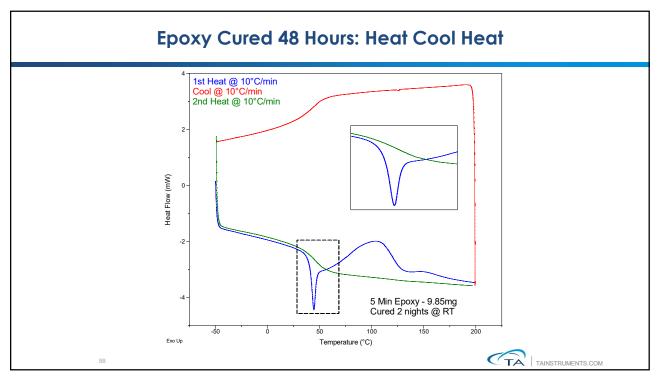


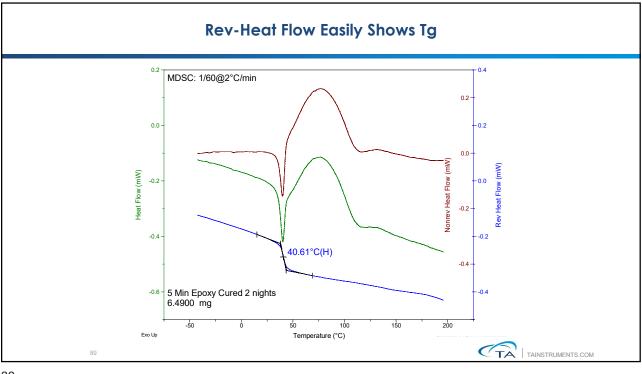


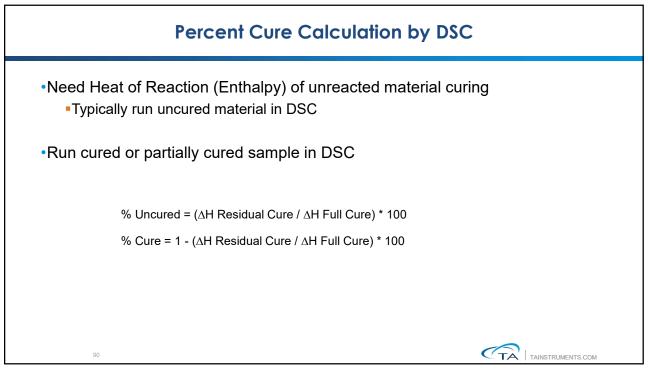


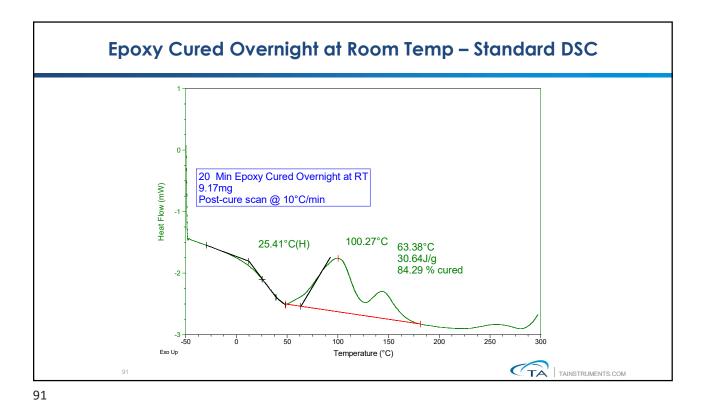


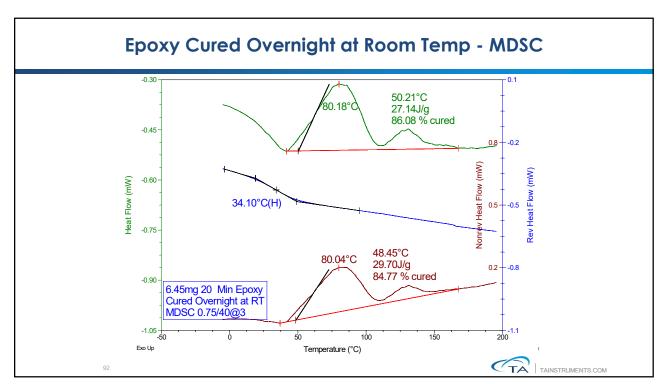


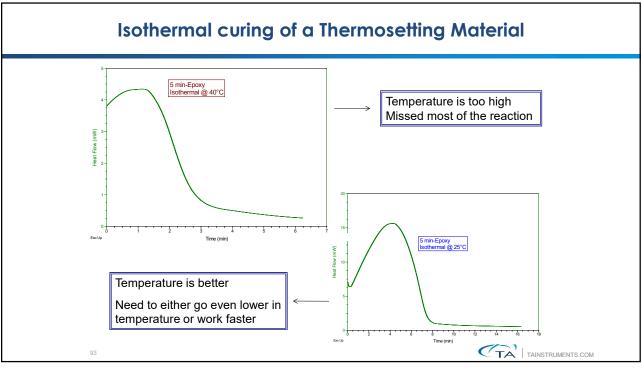


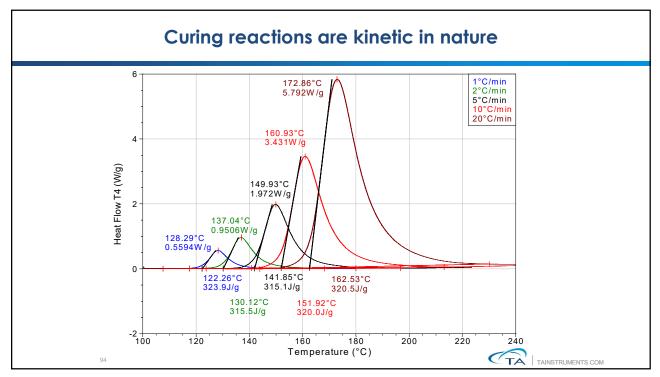


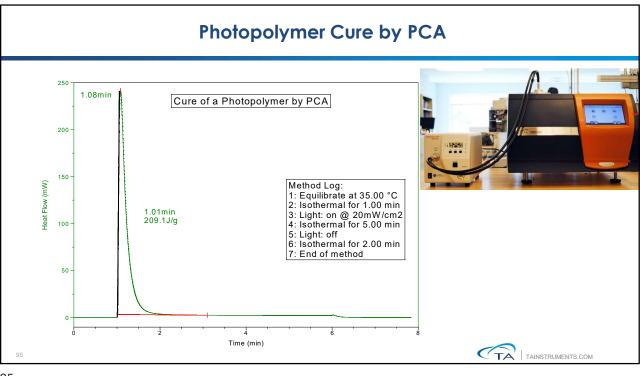


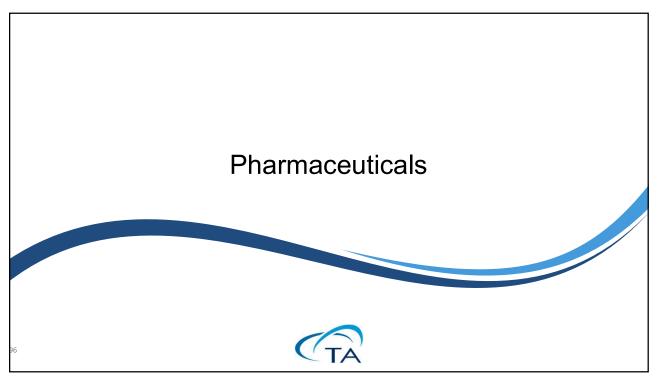


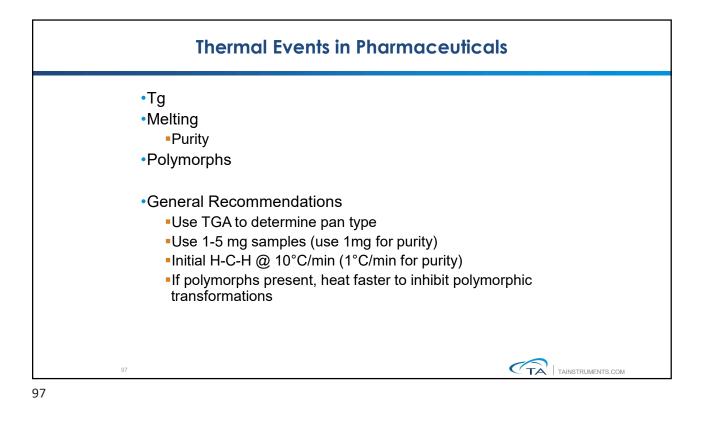


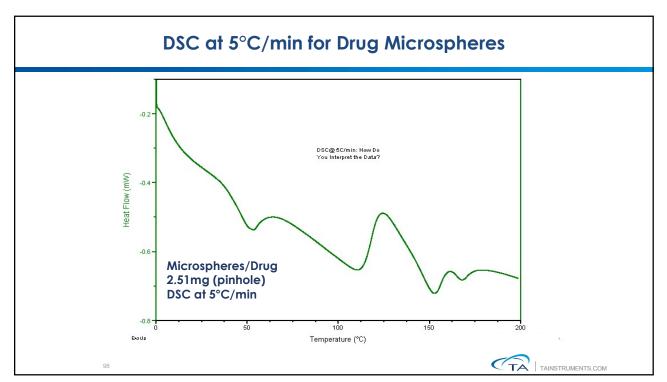


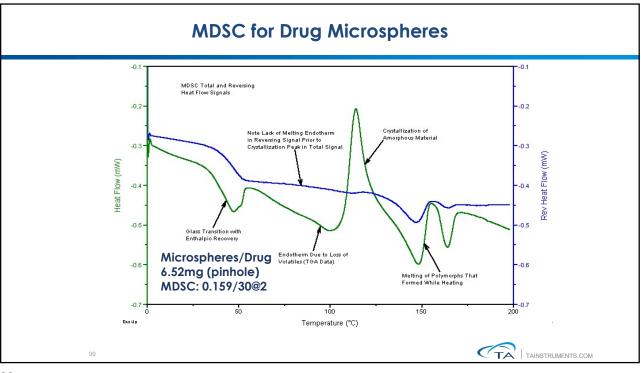


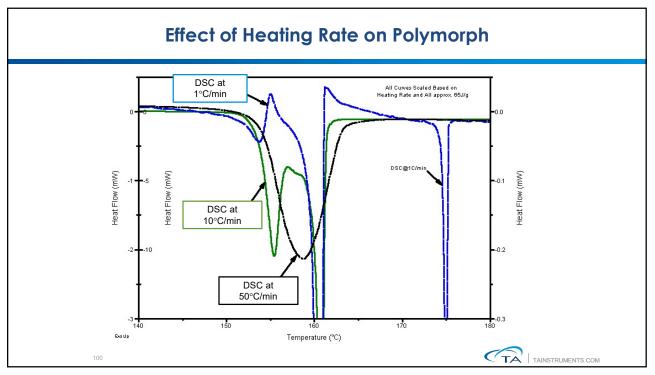


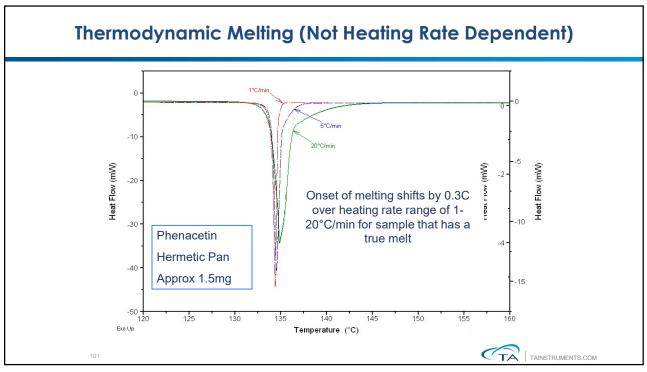


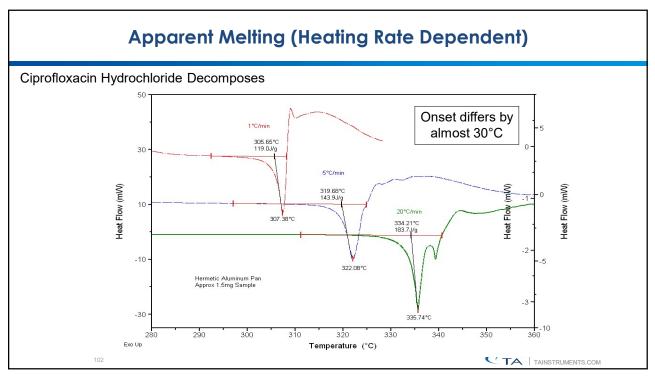




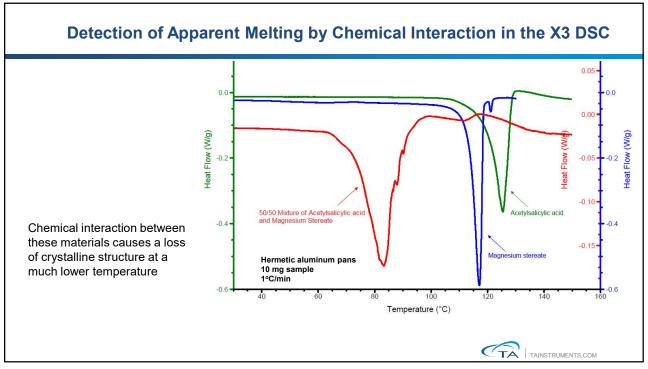


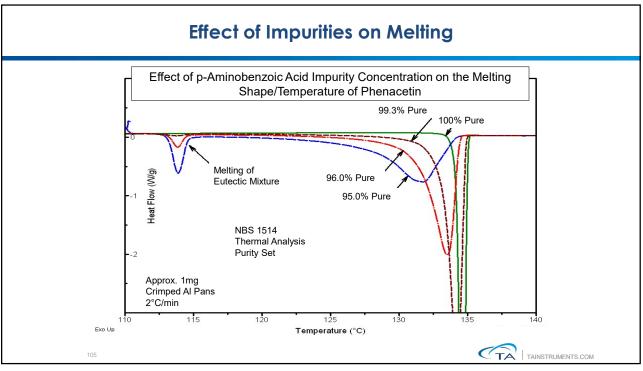


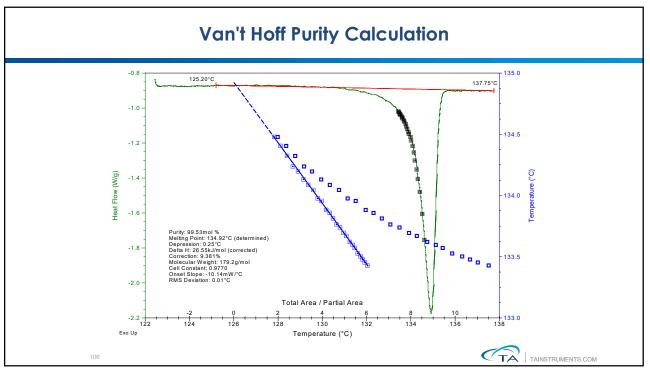












Remainder and Final Notes	
 MDSC[®] is a slow technique. Always start the analysis of a new material with standard DSC and only use MDSC if you need: Improved sensitivity Better resolution Separation of overlapping transitions Most accurate measurement of polymer crystallinity 	;
 DSC General Methods Recommendations: Run a Heat-Cool-Heat at 10-20 °C/min Use specific segments as needed, i.e. gas switch, abort, etc. Ensure that the starting temperature of the experiment is chosen to encompass the entire transition (2 minutes of baseline) 	
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