ELECTRONIC SUPPORTING INFORMATION

Stereodynamic insight of the thermal history effect on poly(vinyl chloride) calorimetric sub-glass and glass transitions as fragile glass model

Jean-Mathieu Pin^a*, Ehsan Behazin^{a,b}, Manjusri Misra^{a,b}, Amar Mohanty^{a,b}*

^aBioproducts Discovery and Development Centre, Department of Plant Agriculture, Crop Science Building, University of Guelph, Guelph, N1G 2W1, Ontario, Canada. ^bSchool of Engineering, Thornbrough Building, University of Guelph, Guelph, N1G 2W1, Ontario, Canada. *Email: jpin@uoguelph.ca; mohanty@uoguelph.ca

- I. Sets of normalized C_p curves and fitting details from glass transition measurements.....S2



Figure S1. Normalized C_p curves assimilated to a conversion α , each graphic contain a set of four curves collected at the heating rates of 10, 15, 20, 25 °C.min⁻¹ for a specific thermal history.



Figure S2. Fits of the glass transition temperatures for different pre-cooling rates.

II. Fitting details of the apparent activation energy surface

Polynomial fitted equation with related details can be found below:

z=z0+a*x+b*y+c*x^2+d*y^2+f*x*y;

		Value Standard Error	
1	z0	388.37694	2.92927
1	а	-9.47999	0.864
1	b	33.35855	8.09341
1	С	-0.77648	0.07748
1	d	-336.47117	6.88413
1	f	26.10906	0.64696

Number of Points	846			
Degrees of Freedom	840			
Reduced Chi-Sqr	173.80	489		
Residual Sum of Squa	ares	145996.11025		
Adj. R-Square 0.95362				