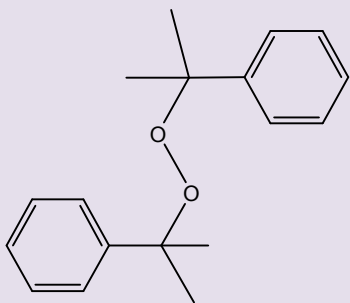
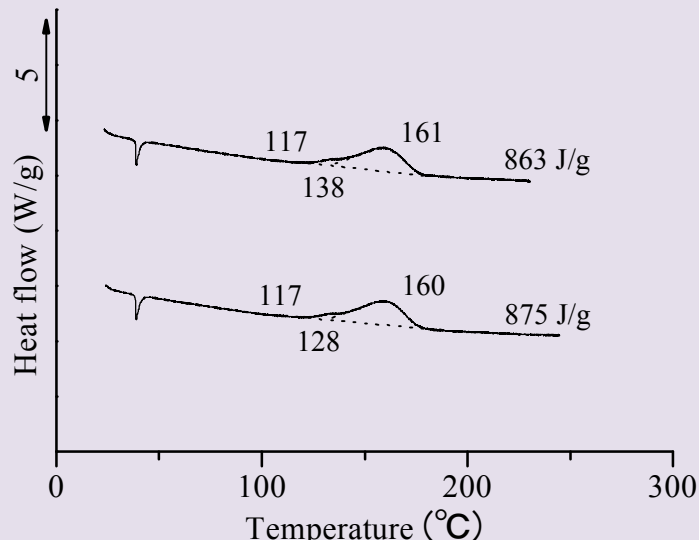
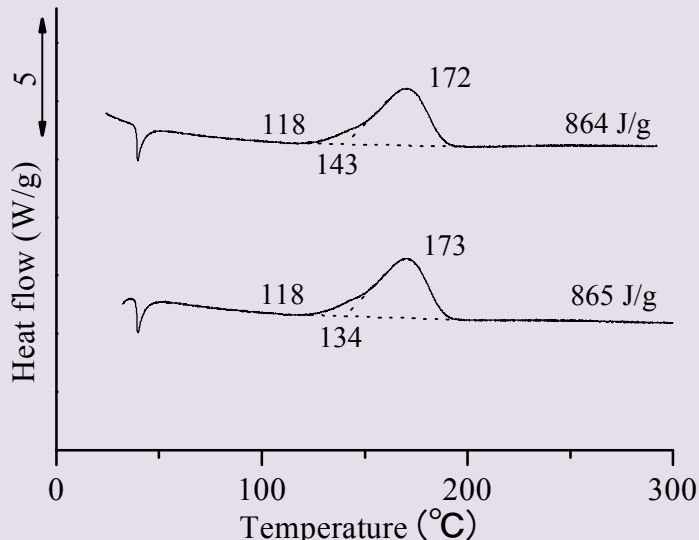
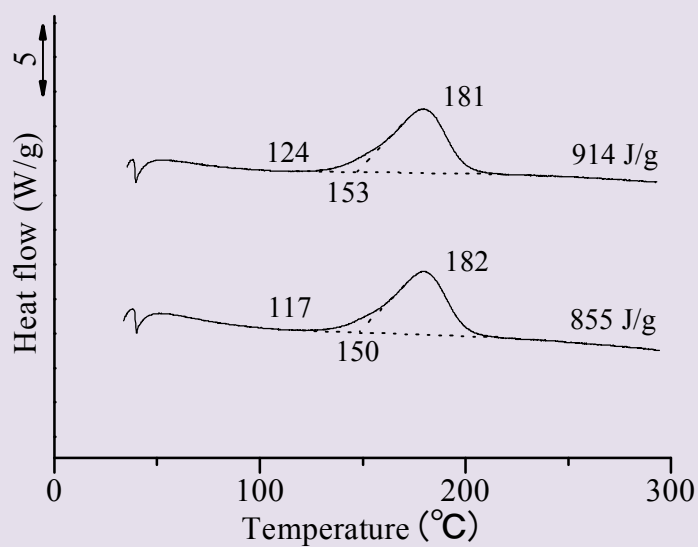


<p>Dicumyl peroxide</p>	<p><math>C_{18}H_{22}O_2</math> DPC</p>
	<p>DSC device: DSC8270B                  Rigaku Corp.                  dT/dt: 2, 5, 10, 20 K/min                  Atmosphere: Air                  Vesel: pressure vessel (SUS)                  Rigaku Corp.                  Sample: ALDRICH (&gt; 98%)</p>
<p>a) 2 K/min</p>	
	<p>&lt;Average&gt;  <math>T_a</math>: 117 °C  <math>T_o</math>: 133 °C  <math>T_{top}</math>: 161 °C  <math>Q_{DSC}</math>: 869 J/g</p>
<p>b) 5 K/min</p>	
	<p>&lt;Average&gt;  <math>T_a</math>: 118 °C  <math>T_o</math>: 139 °C  <math>T_{top}</math>: 173 °C  <math>Q_{DSC}</math>: 865 J/g</p>

c) 10 K/min



<Average>

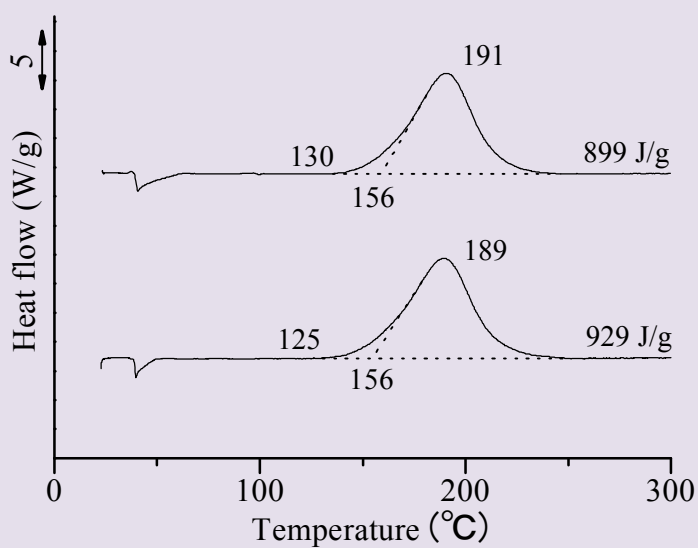
$T_a$  : 121 °C

$T_o$  : 152 °C

$T_{top}$  : 182 °C

$Q_{DSC}$  : 885 J/g

d) 20 K/min



<Average>

$T_a$  : 128 °C

$T_o$  : 156 °C

$T_{top}$  : 190 °C

$Q_{DSC}$  : 914 J/g

## ASTM PLOT

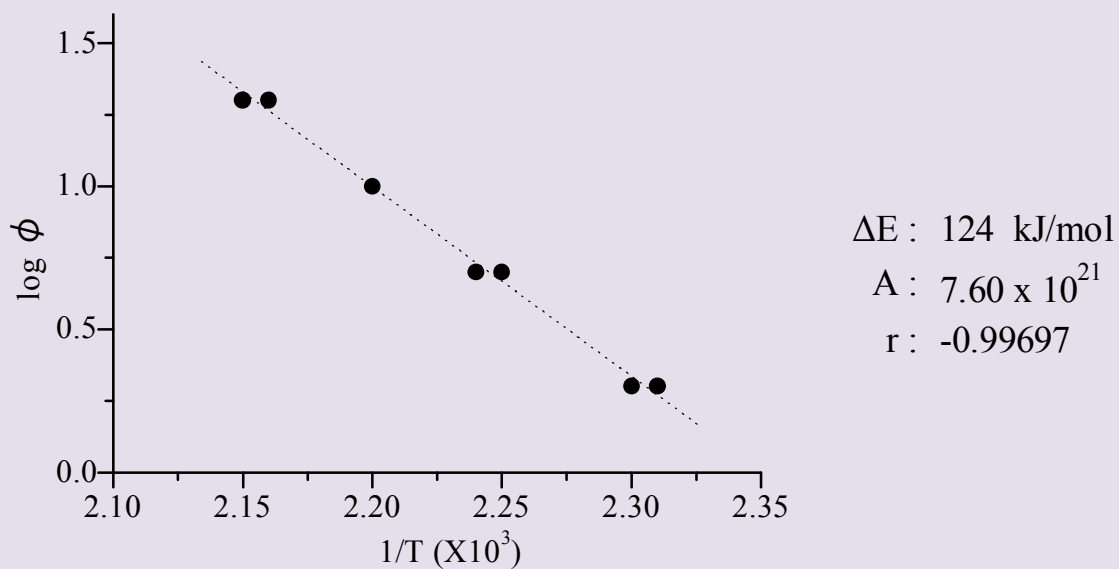


Table (ASTM)

Heat rate $\phi$ (K/min)	$T_{\text{peak}}$ (°C)	$T_m$ (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	161	434	2.30	0.301
	160	433	2.31	0.301
5	172	445	2.25	0.699
	173	446	2.24	0.699
10	181	454	2.20	1.00
	182	455	2.20	1.00
20	191	464	2.15	1.30
	189	462	2.16	1.30