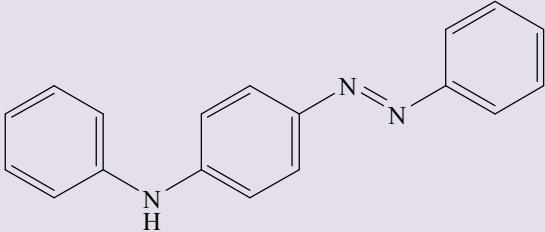
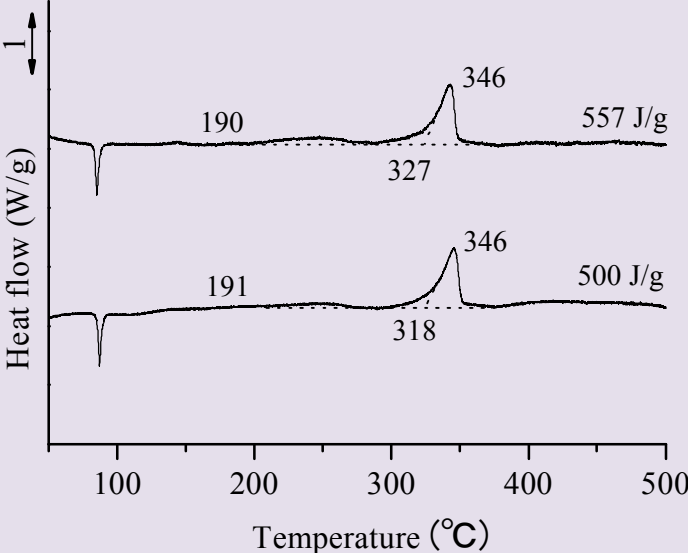
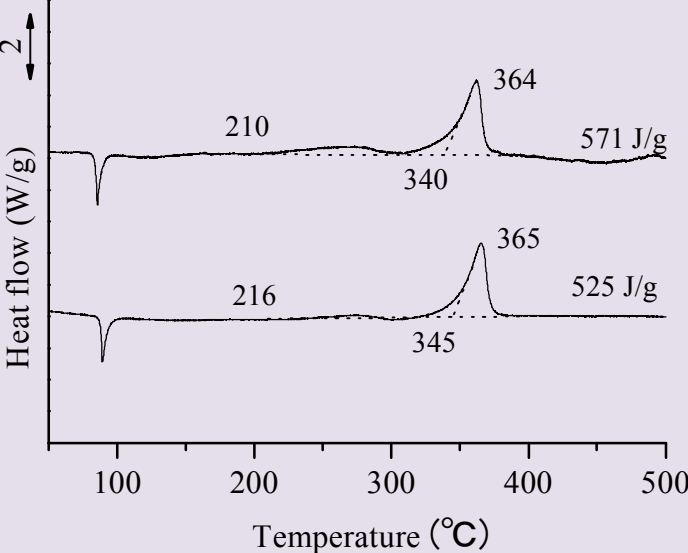
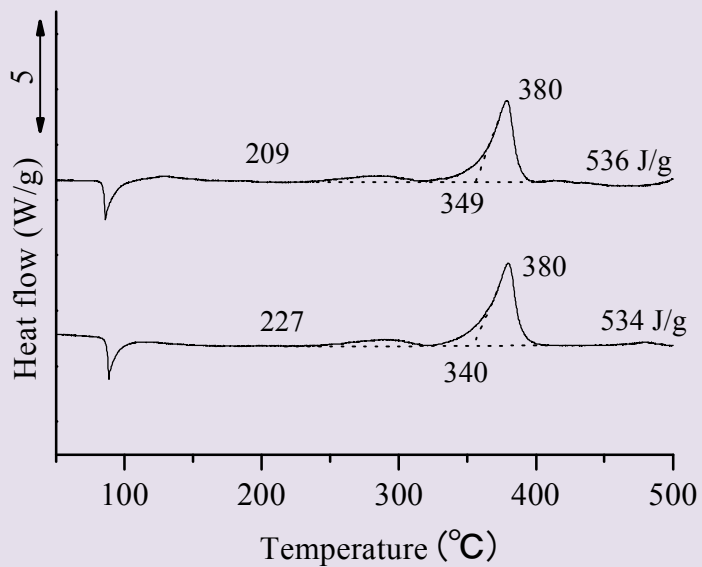


<p>4-(Phenylazo)diphenylamine</p>	<p>$C_{18}H_{15}N_3$ PADPA</p>
	<p>DSC device: DSC8270B Rigaku Corp. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) Rigaku Corp. Sample: TGI (> 98.0%)</p>
<p>a) 2 K/min TGI: 東京化成工業株式会社</p>	
	<p>< Average > T_a: 191 °C T_o: 323 °C T_{top}: 346 °C Q_{DSC}: 529 J/g</p>
<p>b) 5 K/min</p>	
	<p>< Average > T_a: 213 °C T_o: 343 °C T_{top}: 365 °C Q_{DSC}: 548 J/g</p>

c) 10 K/min



<Average>

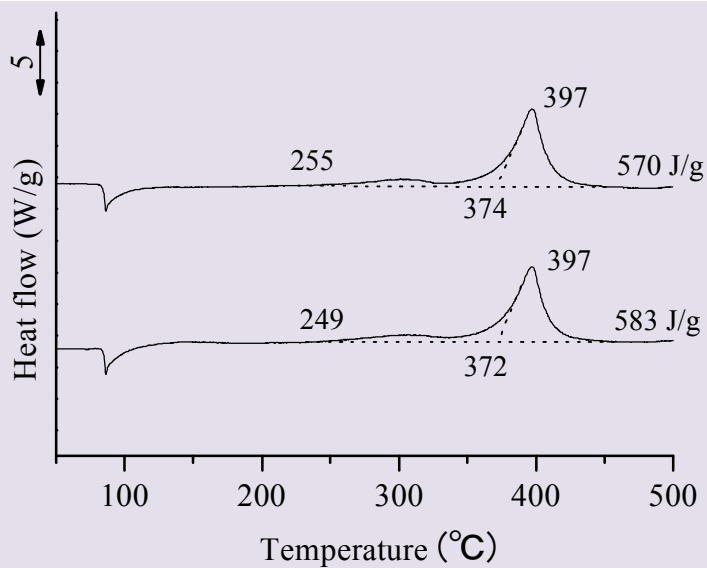
T_a : 218 °C

T_o : 345 °C

T_{top} : 380 °C

Q_{DSC} : 535 J/g

d) 20 K/min



<Average>

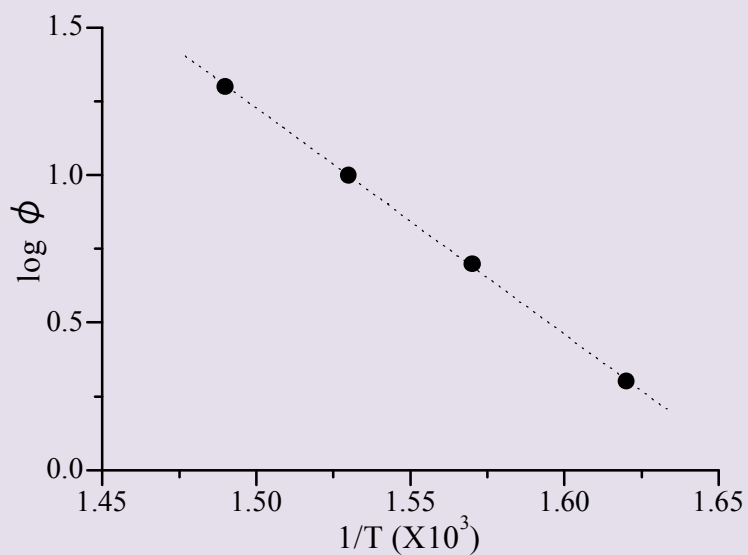
T_a : 252 °C

T_o : 373 °C

T_{top} : 397 °C

Q_{DSC} : 577 J/g

ASTM PLOT



$\Delta E : 143 \text{ kJ/mol}$
 $A : 2.51 \times 10^{25}$
 $r : -0.99988$

Heat rate ϕ (K/min)	T_{peak} ($^{\circ}\text{C}$)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	346	619	1.62	0.301
	346	619	1.62	0.301
5	364	637	1.57	0.699
	365	638	1.57	0.699
10	380	653	1.53	1.00
	380	653	1.53	1.00
20	397	670	1.49	1.30
	397	670	1.49	1.30