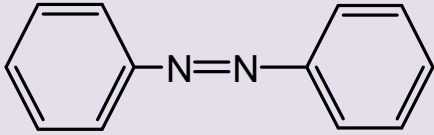
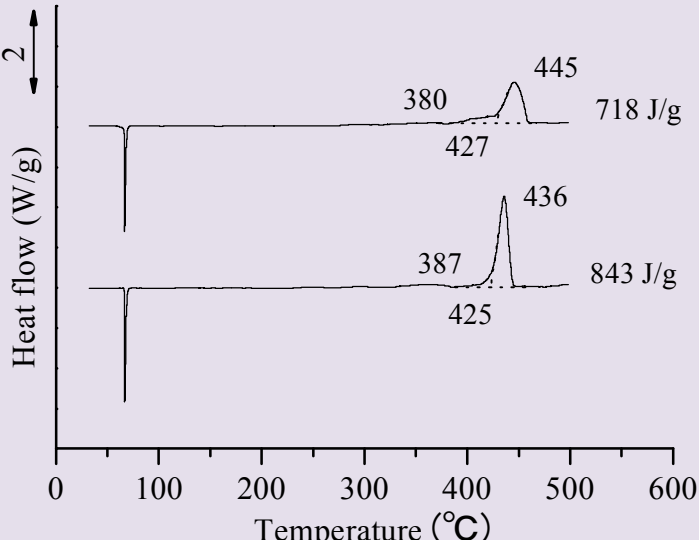
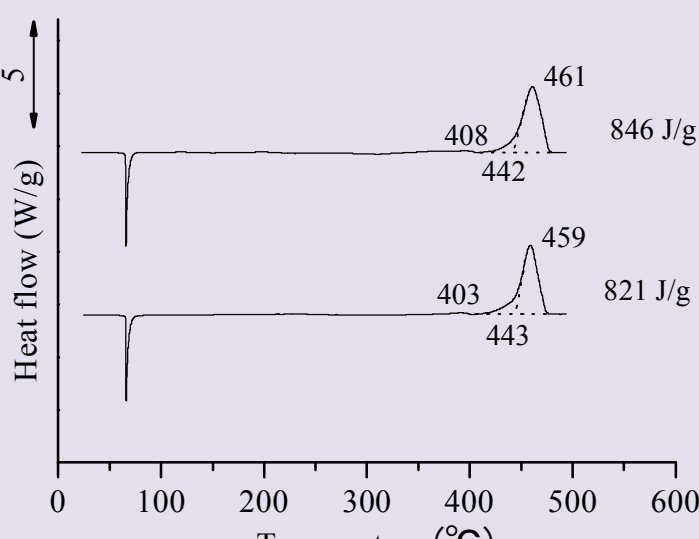
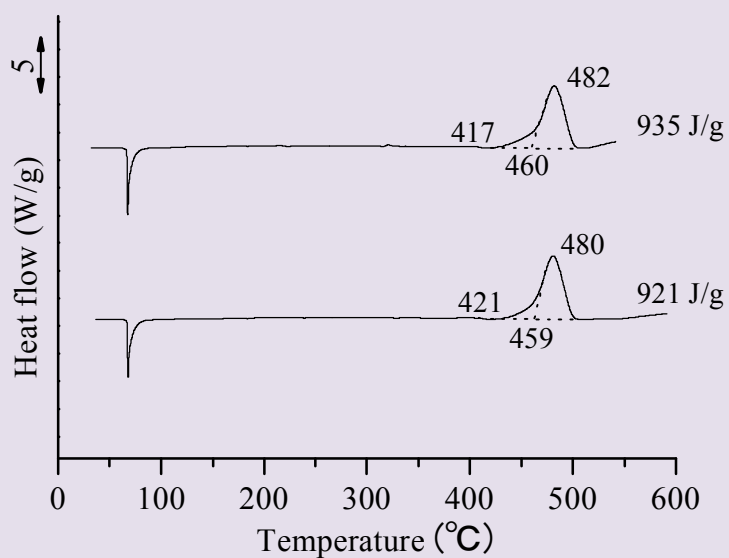


Azobenzene	$C_6H_5N:NC_6H_5$ AzoB										
	DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: Wako										
Wako: 和光純薬工業株式会社											
<p>a) 2 K/min</p>  <table border="1"> <thead> <tr> <th colspan="2">&lt;Average&gt;</th> </tr> </thead> <tbody> <tr> <td><math>T_a</math>:</td> <td>384 °C</td> </tr> <tr> <td><math>T_o</math>:</td> <td>426 °C</td> </tr> <tr> <td><math>T_{top}</math>:</td> <td>441 °C</td> </tr> <tr> <td><math>Q_{DSC}</math>:</td> <td>781 J/g</td> </tr> </tbody> </table>		<Average>		$T_a$ :	384 °C	$T_o$ :	426 °C	$T_{top}$ :	441 °C	$Q_{DSC}$ :	781 J/g
<Average>											
$T_a$ :	384 °C										
$T_o$ :	426 °C										
$T_{top}$ :	441 °C										
$Q_{DSC}$ :	781 J/g										
<p>b) 5 K/min</p>  <table border="1"> <thead> <tr> <th colspan="2">&lt;Average&gt;</th> </tr> </thead> <tbody> <tr> <td><math>T_a</math>:</td> <td>407 °C</td> </tr> <tr> <td><math>T_o</math>:</td> <td>443 °C</td> </tr> <tr> <td><math>T_{top}</math>:</td> <td>460 °C</td> </tr> <tr> <td><math>Q_{DSC}</math>:</td> <td>834 J/g</td> </tr> </tbody> </table>		<Average>		$T_a$ :	407 °C	$T_o$ :	443 °C	$T_{top}$ :	460 °C	$Q_{DSC}$ :	834 J/g
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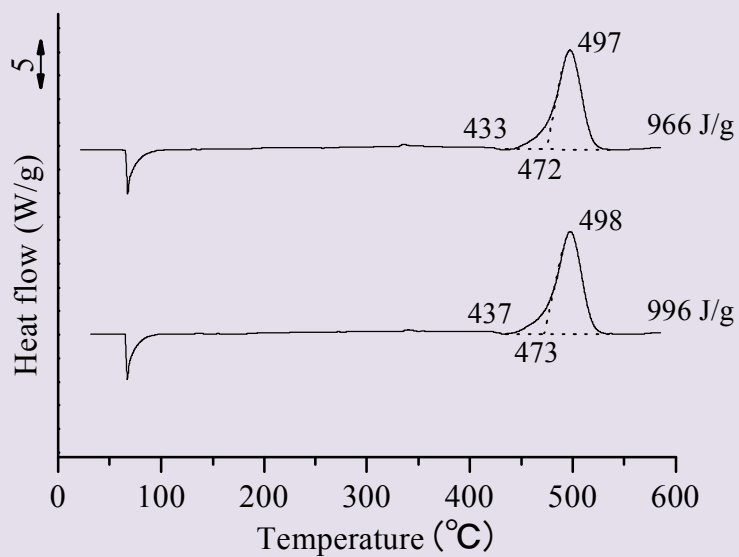
c) 10 K/min



< Average >

$T_a$  : 419 °C  
 $T_o$  : 460 °C  
 $T_{top}$  : 481 °C  
 $Q_{DSC}$  : 928 J/g

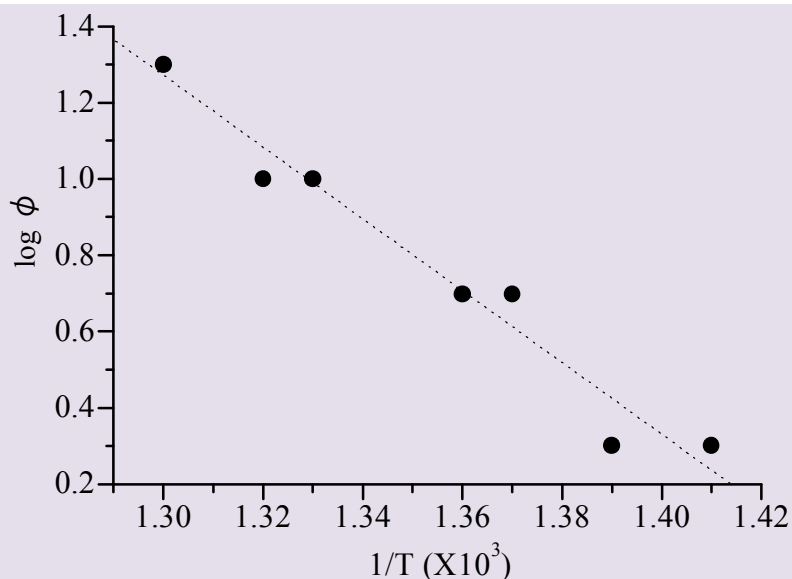
d) 20 K/min



< Average >

$T_a$  : 435 °C  
 $T_o$  : 473 °C  
 $T_{top}$  : 498 °C  
 $Q_{DSC}$  : 981 J/g

## ASTM PLOT



$\Delta E : 176 \text{ kJ/mol}$   
 $A : 1.43 \times 10^{31}$   
 $r : -0.98358$

Heat rate $\phi$ (K/min)	$T_{\text{peak}}$ ( $^{\circ}\text{C}$ )	$T_m$ (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	445	718	1.39	0.301
	436	709	1.41	0.301
5	461	734	1.36	0.699
	459	732	1.37	0.699
10	482	755	1.32	1.00
	480	753	1.33	1.00
20	497	770	1.30	1.30
	498	771	1.30	1.30