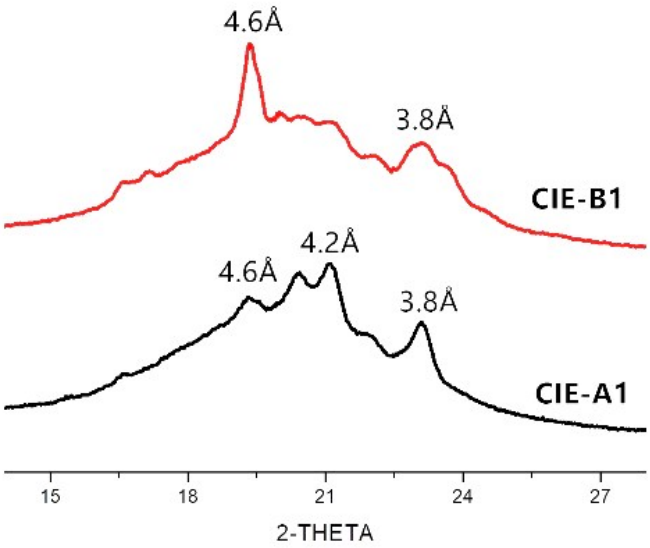
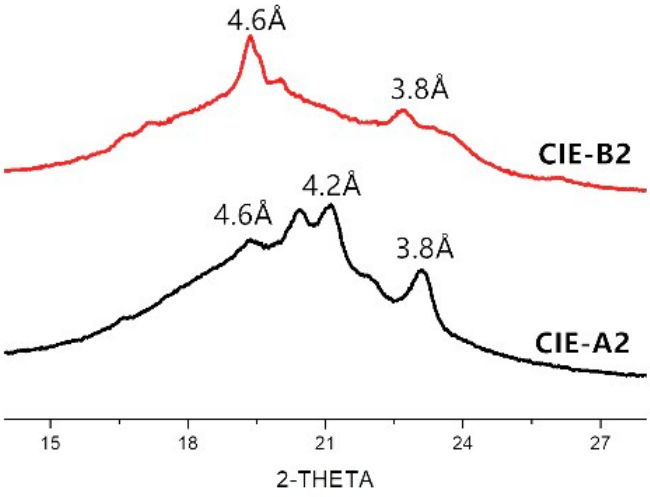
Supplementary-Figure 1.

Crystal polymorphic forms of the interesterified samples measured at 25 °C in the absence of SBO and PKO **(A)**; in presence of SBO **(B)**; in presence of PKO **(C)**; in presence of SBO and PKO **(D)**.

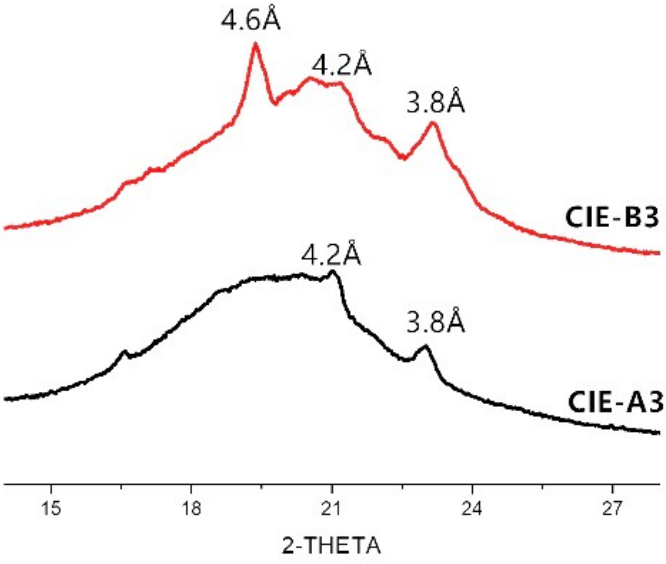
A



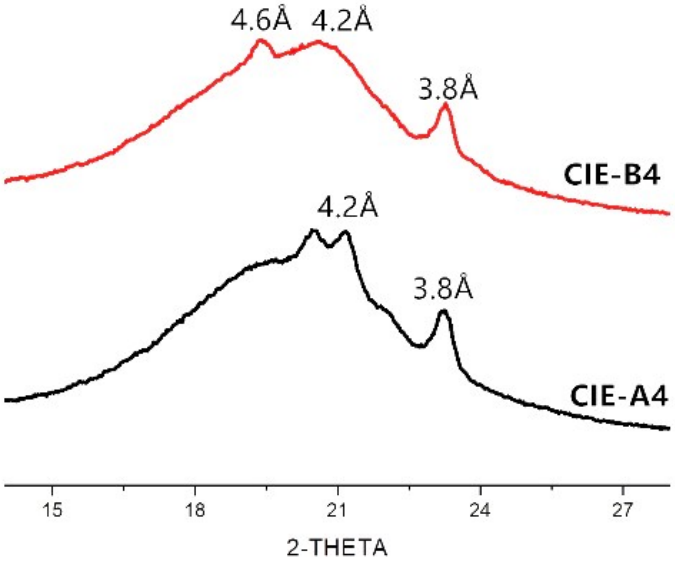
B



C


4.6Å
4.2Å
3.8Å
CIE-B3
4.2Å
3.8Å
CIE-A3
15
18
21
24
27
2-THETA

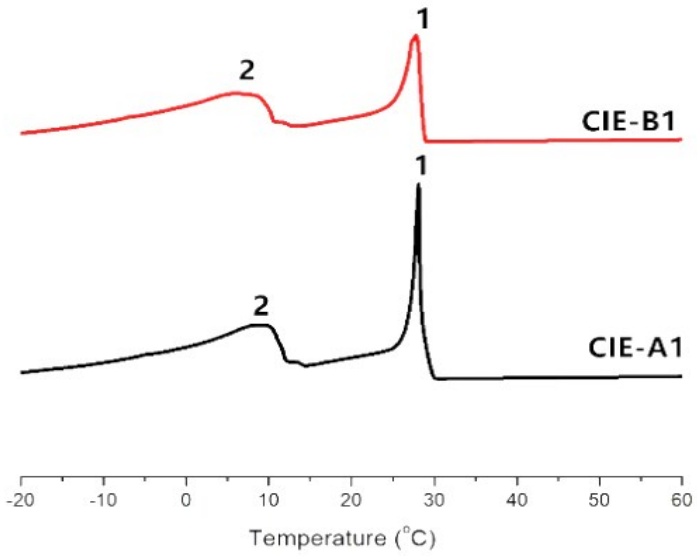
D


4.6Å
4.2Å
3.8Å
CIE-B4
4.2Å
3.8Å
CIE-A4
15
18
21
24
27
2-THETA

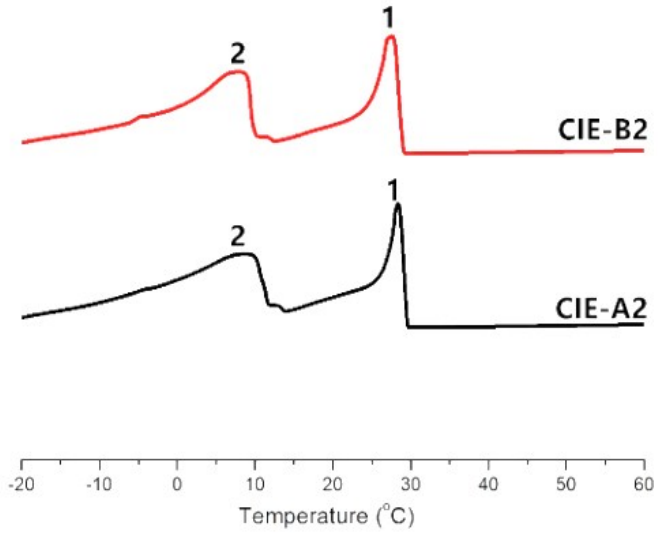
Supplementary-Figure 2.

DSC non-isothermal crystallization thermograms of the interesterified samples in the absence of SBO and PKO **(A)**; in presence of SBO **(B)**; in presence of PKO **(C)**; in presence of SBO and PKO **(D)**.

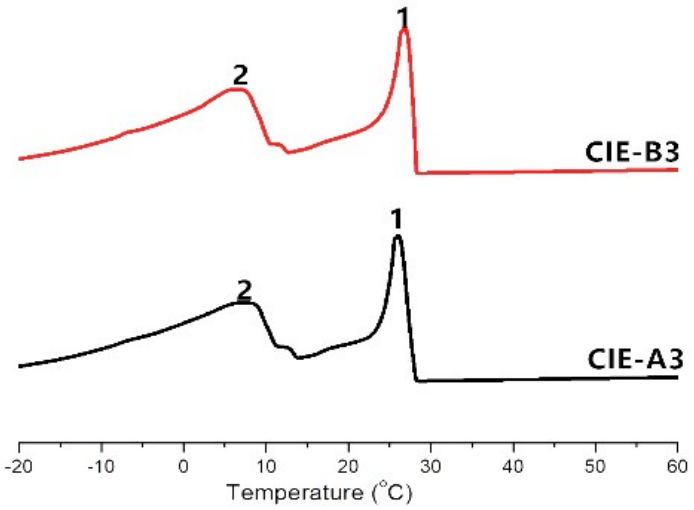
A



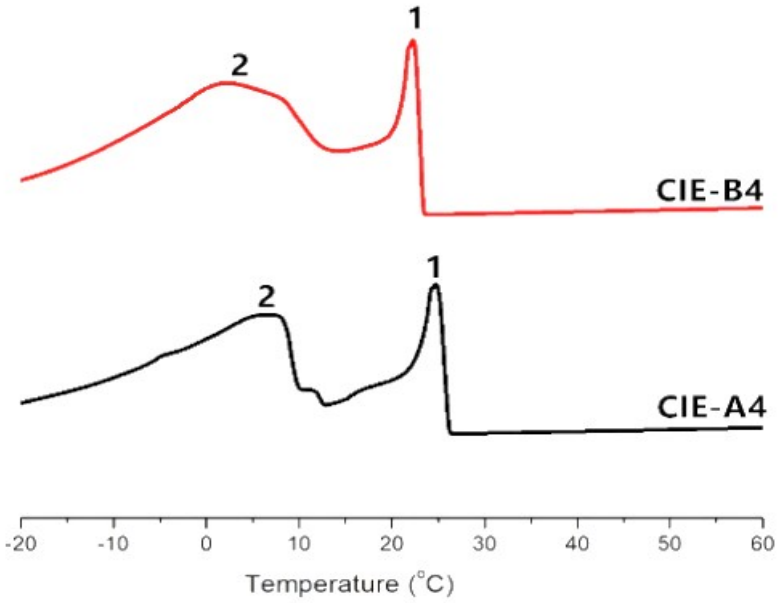
B



C


1
2
CIE-B3
1
2
CIE-A3
-20
-10
0
10
20
30
40
50
60
Temperature (°C)

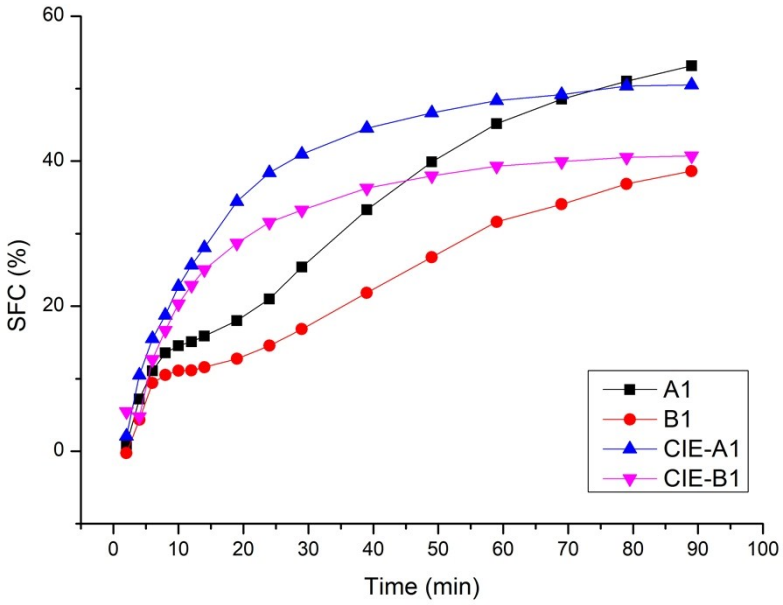
D


1
2
CIE-B4
1
2
CIE-A4
-20
-10
0
10
20
30
40
50
60
Temperature (°C)

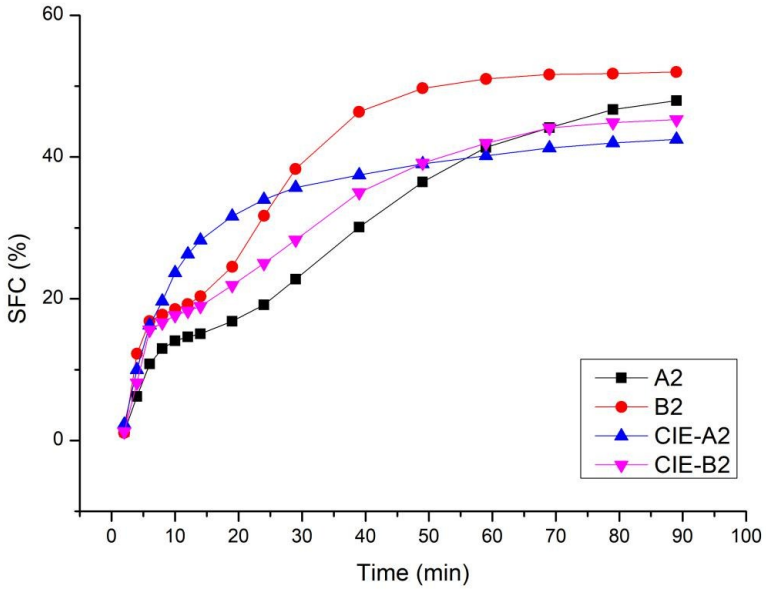
Supplementary-Figure 3.

SFC versus time profile during isothermal crystallization of the samples at 10 °C in the absence of SBO and PKO **(A)**; in presence of SBO **(B)**; in presence of PKO **(C)**; in presence of SBO and PKO **(D)**.

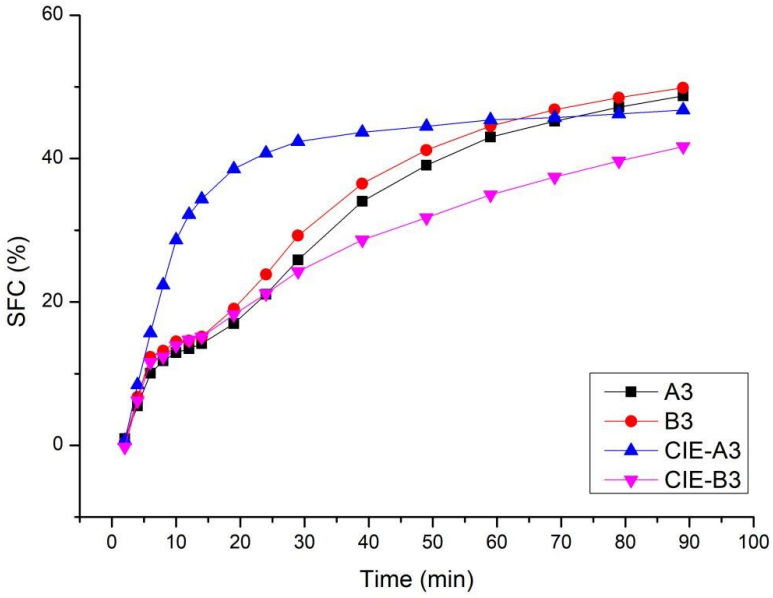
A



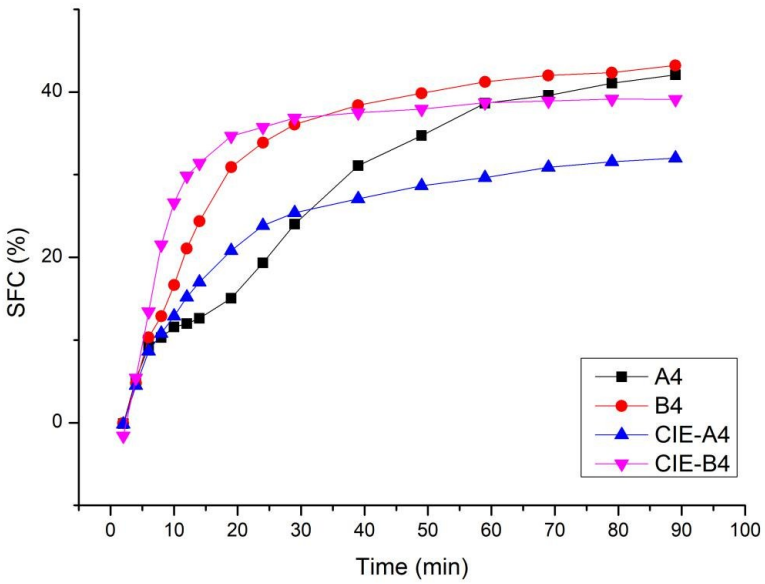
B



C



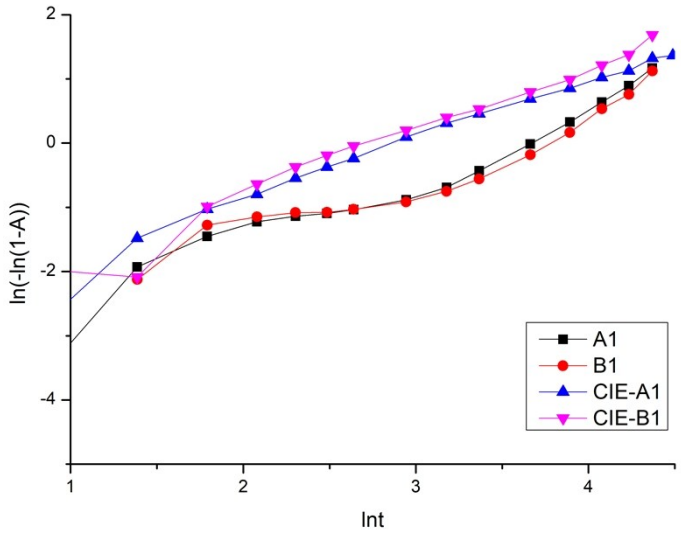
D



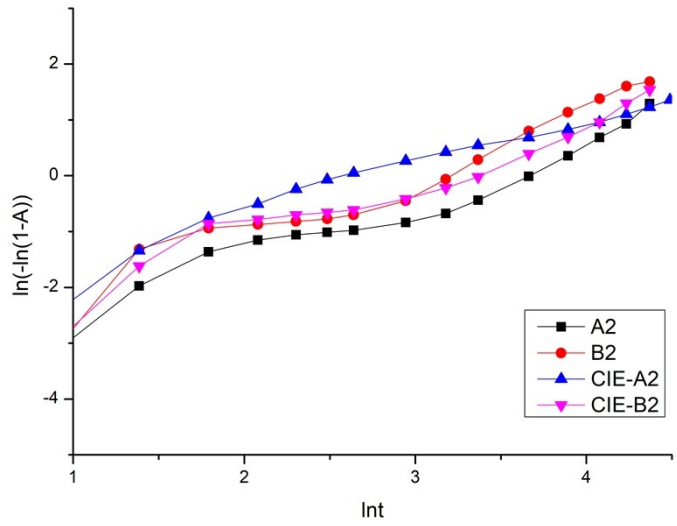
Supplementary-Figure 4.

The isothermal crystallization kinetic equation fitting curve (*p*-NMR) of the samples in the absence of SBO and PKO **(A)**; in presence of SBO **(B)**; in presence of PKO **(C)**; in presence of SBO and PKO **(D)**.

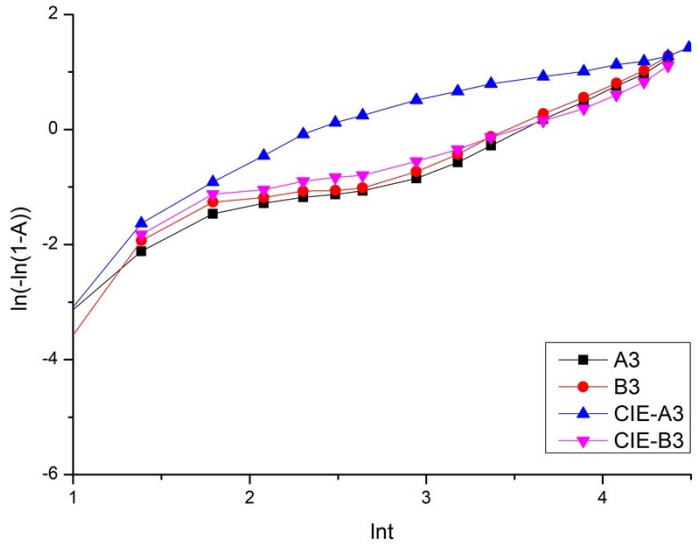
A



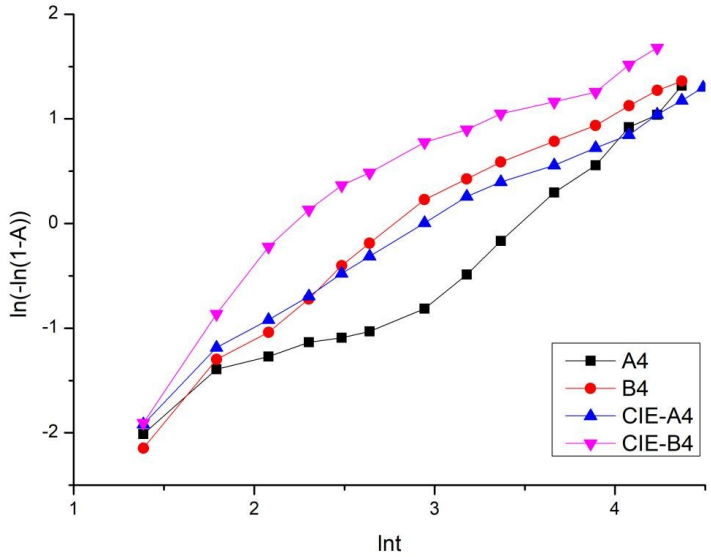
B



C


2
0
-2
-4
-6
1
2
3
4
ln(-ln(1-A))
Int
A3
B3
CIE-A3
CIE-B3

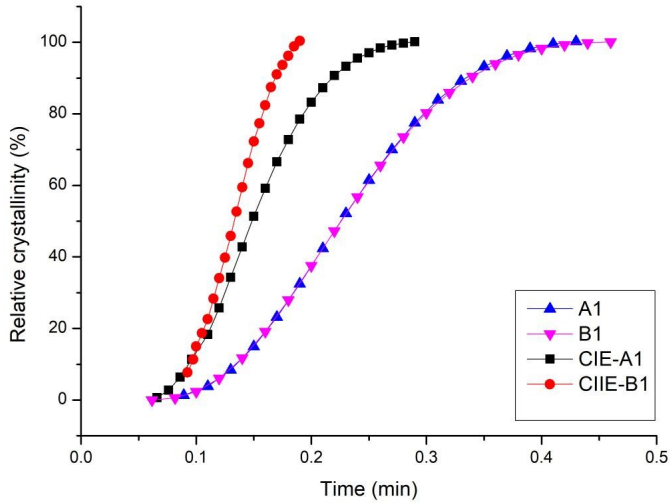
D


2
1
0
-1
-2
1
2
3
4
ln(-ln(1-A))
Int
A4
B4
CIE-A4
CIE-B4

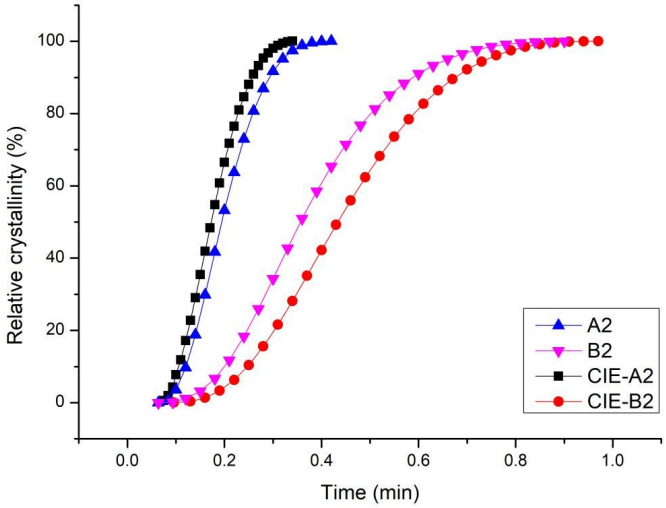
Supplementary-Figure 5.

The DSC-measured relative crystallinity of the samples under the corresponding isothermal crystallization temperatures in the absence of SBO and PKO (a, (A1, 23.80 °C; CIE-A1, 27.90 °C; B1, 19.30 °C; CIE-B1, 27.10 °C)); in presence of SBO (b, (A2, 23.00 °C; CIE-A2, 27.50 °C; B2, 24.00 °C; CIE-B2, 26.50 °C)); in presence of PKO (c, (A3, 22.80 °C; CIE-A3, 25.60 °C; B3, 23.00 °C; CIE-B3, 24.00 °C)); in presence of SBO and PKO (d, (A4, 24.00 °C; CIE-A4, 26.50 °C; B4, 18.00 °C; CIE-B4, 22.00 °C)).

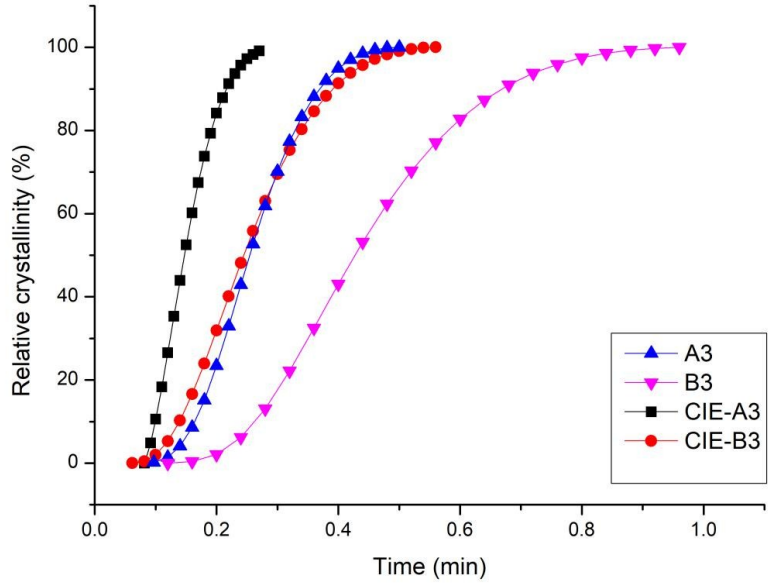
a



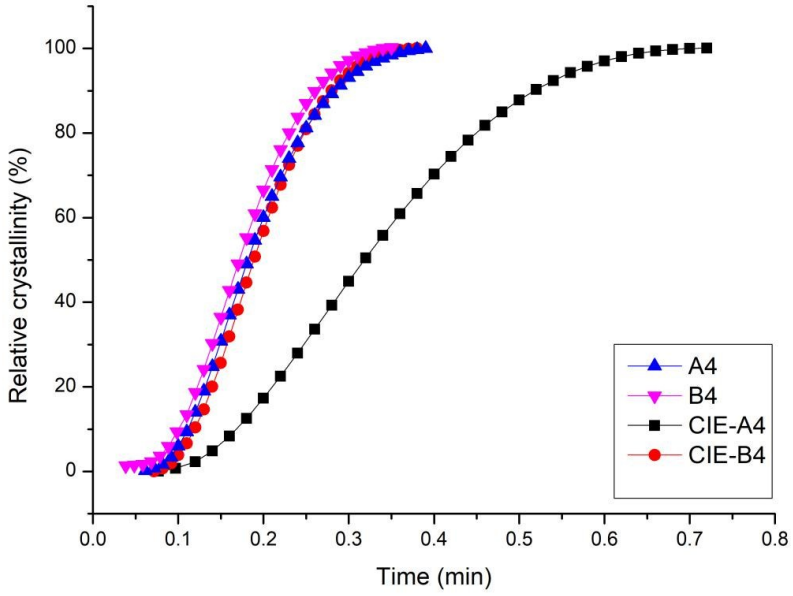
b



c


Relative crystallinity (%)
Time (min)
A3
B3
CIE-A3
CIE-B3

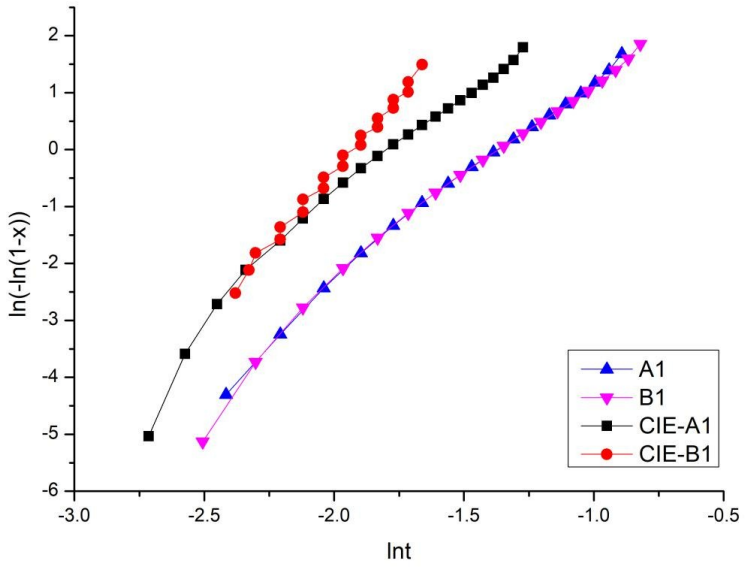
d


Relative crystallinity (%)
Time (min)
A4
B4
CIE-A4
CIE-B4

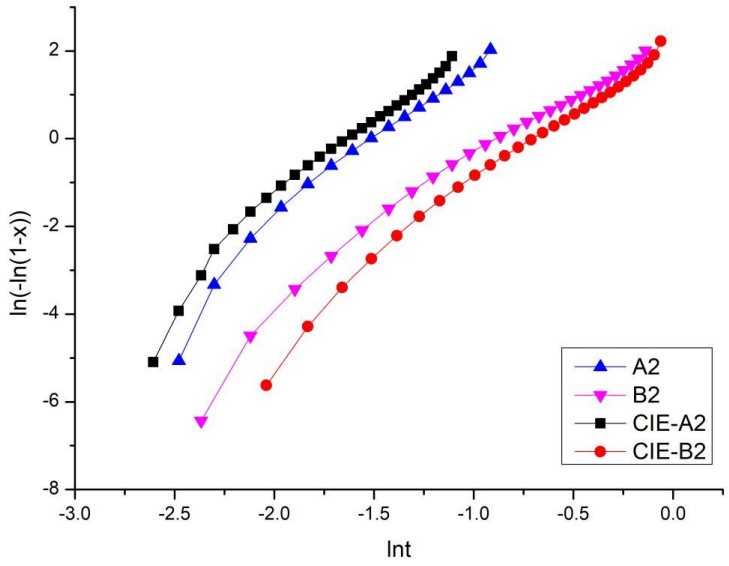
Supplementary-Figure 6.

The isothermal crystallization kinetic equation fitting curve (DSC) of the samples in the absence of SBO and PKO **(A)**; in presence of SBO **(B)**; in presence of PKO **(C)**; in presence of SBO and PKO **(D)**.

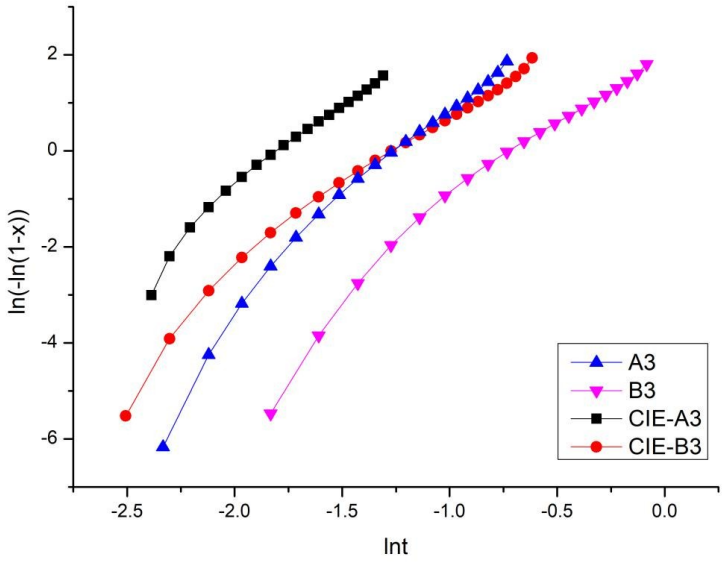
A



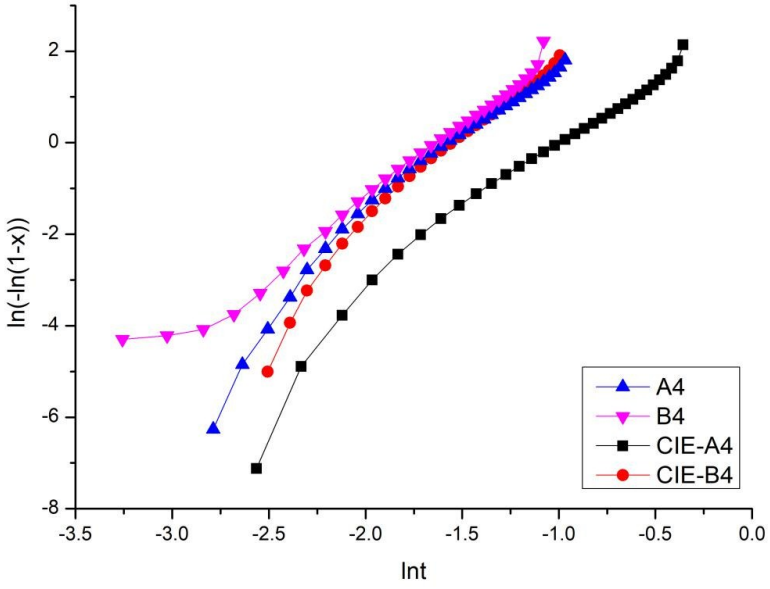
B



C



D



Supplementary-Table 1. Crystallization enthalpies, onset temperatures and transition temperatures of oil blends obtained post CIE [ab]

Sample	T_o (°C)	ΔH（J/g）	Transition temperature (°C)
CIE-A1	29.83±0.37	77.70±1.88	1: 28.11±0.40 2: 8.93±0.15
CIE-B1	28.80±0.29	74.64±0.91	1: 27.75±0.74 2: 5.96±0.34
CIE-A2	29.54±0.55	74.60±1.10	1: 28.40±0.13 2: 8.56±0.13
CIE-B2	29.06±0.46	69.82±1.29	1: 27.53±0.32 2: 7.89±0.10
CIE-A3	28.00±0.37	71.23±0.79	1: 26.30±0.25 2: 7.14±0.16
CIE-B3	28.11±0.42	71.40±0.98	1: 26.89±0.22 2: 6.37±0.14
CIE-A4	26.11±0.15	58.13±0.74	1: 24.79±0.21 2: 6.49±0.15
CIE-B4	23.33±0.44	68.09±0.59	1: 22.32±0.23 2: 2.25±0.05

[a]Values show the mean ± standard deviation.

[b]Abbreviations used: A1, 30BT+20POL+50PMF; A2, 30BT+10POL+50PMF+10SBO; A3, 30BT+20POL+40PMF+10PKO; A4, 30BT+40PMF+10PKO+20SBO; B1, 80POL+20PST; B2, 40PST+25POL+20PMF+15SBO; B3, 25PST+35POL+30PMF+10PKO; B4, 30PST+25PMF+30PKO+15SBO.