



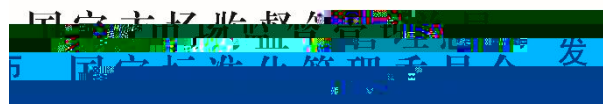
GB/T XXXXX—XXXX

The analysis methods for polypropylene packaging container doped with recycled plastic

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XXXX - XX - XX

XXXX - XX - XX



GB/T 1.1—2020

1

SAC/TC397

1

(PP)

2

GB/T 2918

GB/T 3682.1-2018

(MFR)

(MVR)

1 :

GB/T 19466.1-2004

DSC 1

GB/T 19466.3-2004

DSC 3

GB/T 19466.6-2009

DSC 6

QIT

QIT

3

3.1 raw material

3.2 recycled plastic

3.3 melt mass flowrate (MFR)

10 g/10min

3.4 melting temperature

3.5 oxidation induction time (QIT)

min

3.6 thermal decomposition temperature

5wt%

GB/T XXXX—XXXX

3.7 ash resi due %

4

5

5.1 GB/T 3682.1-2018 5
5.2 DSC GB/T19466.1-2004 5.1
5.3

6.2.1

2

5 mg 10 mg

6.2.2

GB/T 19466.3-2004

50 mL/min $1 \pm 10\%$

10 /min

20 200

6.2.3

6.2.4

B

PP

DSC

6.3

6.3.1

3

0.1mm± 0.01mm

6.3.2

GB/T 19466.6-2009

50 mL/min $1 \pm 10\%$

50 mL/min $1 \pm 10\%$

20 /min

200

6.3.3

6.3.4

C

PP

6.4

6.4.1

3

10mg 15mg

6.4.2

10 /min

25 600

600

30min

5wt%

6.4.3

6.4.4

D

PP

TGA

6.5

6.5.1

6.4.1

6.5.2

6.4.2

6.5.3

6.5.4

E

PP

7

a)

b)

c)

d)

e)

f)

A

A.1 PP-S700

MFR

A.1

A.1 PP

MFR

	/%		MFR(g/10min)
1	100	0	14.86
2	95	5	17.21
3	80	20	18.12
4	70	30	18.55
5	50	50	21.15
6	30	70	23.60
7	0	100	27.62

B

B.1 PP

PP-S700 PP-T30S

B.1

B.1

	/%	
1	100	0
2	90	10
3	80	20
4	50	50
5	0	100

B.2 PP

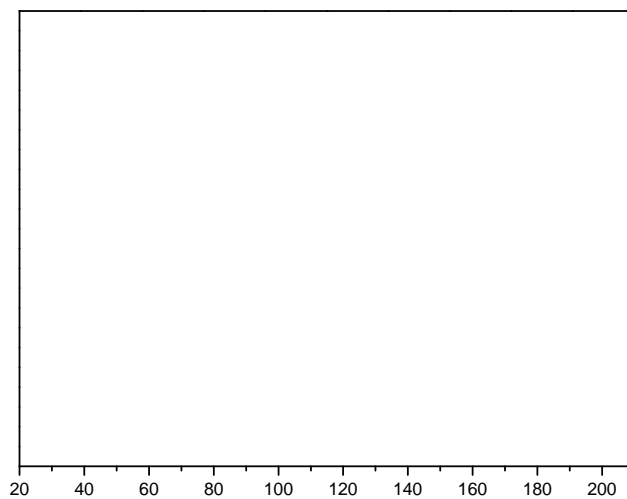
PP-S700 PP-T30S

DSC

B.1

B.2

20 40 60 80 100 120 140 160 180 200



C

C.1 PP

PP-S700 PP-T30S

C.1

C.1

	Q T/min	
	PP-S700	PP-T30S
1	7.62	4.89
2	7.21	4.01
3	4.46	3.33
4	2.65	2.18
5	1.60	1.60

1-5

B.1

E

E.1 PP

PP-S700 PP-T30S

E.1

E.1

	/%	
	PP-S700	PP-T30S
1	0.40	0.01
2	4.34	4.02
3	10.56	11.26
4	17.37	16.38
5	33.39	32.81

1-5

B.1

