2

“ 246 ”

1 LCP

LCP LCP

LCP

LCP

LCP

LCP

LCP

LCP

LCP LCP Ó3.2 GPa Ó70 GPa Ò0.04% U94-V0

3000

5

500

20%

2

Ó25 MPa Ó1200 MPa

Ó40 kJ/m^2 100

3000

5

300

20%

4

Ó2.0CN/dtex

Ó99% 50 Ó80% Ó90%

3000

5

500

20%

5

- -

905nm Ó85% Ó60 MPa Ò1.5%

3000

5

500

20%

6

-

VOC

>1 MPa >1 MPa

>100% >14 kV/mm VOC<1%

<1 >80% 85 1000

<50% 3000

5

500

20%

8

-

Ó600 h

Ó3000 N/mm Ò0.8%

GB15083/GB14167/ECE R14 QC/T 740 /

(-40 +80) 15000 Ó30% ,

3000

5

“ - ”

“ - ”

“ ”

Ó1.75 Ó80 gf/inch ÓH 0

3000

5

300

20%

10

PVDF

PVDF

/

PVDF

PVDF

PVDF

1.0-1.5 mm

250 m 6 N 500-1500 $Lm^{-2}h^{-1}bar^{-1}$

50-200 nm 70

2000

5

500

20%

11 **IC**

IC

IC

100-1600 εm FC-BGA

(Tg)Ó320 CTE x-y, Tg)Ò5 ppm/

Ó30 GPa Dk@1 GHz Ò3.5 Df@1 GHz

Ò0.006 Df@5 GHzÒ0.007 Df@10 GHzÒ0.009

3000

5

500

20%

12 **6**

6

/ /

6

6

6

Ò20 m Ò4 cm³/ m²·d·atm Ó240 MPa Ó110% Ó10 N Ó1.0 W/(m·K) 3000

5

500

20%

13

UHMWPE

UHMWPE UHMWPE

UHMWPE UHMWPE

- -

UHMWPE

UHMWPE

Ò160 UHMWPE

8-50 εm Ó1.5 GPa

Ó30 GPa, Ò5

3 3

100 30%

14

1

Ó85% Ó5 kPa Ó300 kPa

Ó350%

3 3

100 30%

15

3 125

GF Ó5 Ò150 ms 100 h

Ò5% 3

3

100 30%

1 CPU Socket

1)

CPU SOCKET

2)

3) - -

>-70Span <</MCID

2000 3

500

20%

2

0.5 mm

BrÓ15 kGs Hcj Ó 12 kOe 20g

Ó84% 50 εm

12 kOe Dy 0.5% Tb 0.3 %

2.5 % 50

10 2

3000 3

500

20%

3

1 RoHS REACH

2 RmÓ320 MPa A5Ó10%

Ó105HV 0.5-3.5εm

3 Ó70% IACS

2.1ε qŁcm Ó350 W/mŁk 4N

50 Ò0.1mm 4

Ó8 Ò55K

Ò18 mq 5000

3 3

300

20%

4

5N /

Ni/Ti/Al

Ó300mm

Ó99.999% 10%

3000 3

1 3

3

500

20%

5

Ó45% Ó80%

Ò1.5% K438 GH3536 Ó4.25g/cm^3

4.3g/cm^3 Ó4.8g/cm^3 4.9g/cm^3 10%/50%/90%

20±3/32±3/57±3 Ò130 ppm Ò30

ppm GH3536 800 Ó200 MPa

Ó360 MPa Ó50% 900 Ó180 MPa

Ó240 MPa Ó45% K438

900 Ó400 MPa Ó580 MPa Ó7.5%

120

8000 1~2

4 3

300

20%

6 1000V

1

2

+ +

3

-

4

1

Ó99.99% Ò5 ppm Ò

Ó100%IACS 280 10min HV90~110 2

- -

50 kg 3

TZzB0324-2018 30

Ò2 (PDIV)Ó1500V

10000 7 500

1000 4

2 / 1

500

20%

7

≤19εg/ 100g Al

Ò30εm Ó210MPa Ó5.0%

2 GB/T37910.1

Ò30εm MIG 30%

Ó210MPa Ó205MPa

Ó6% 6061-T6 1

5 3

100

30%

8

R_m Ó500MPa AÓ15%

Ó850 Ó94%IACS Ó350W/(mŁk)

Ò25εm Ó68HRB

3 3

100

30%

9 **X**

X

X

100 W ≤100 kg

200kg 100 mm ±0.1 mm X

10 εm 2.5 εs

1.5 mm 6

2

100

30%

10

1.5T

2:17

±1.5T -170

500

1.5T 0.8

3 5

100

30%

11

-

-

1

/

1

3000 Ò28nm Ó45

Ó120 /min Ò500 ¡ /min

Ò500 ¡ /min Ó99%

5 3

1

500

20%

2

<5 0.2 0.5 0.75 0.95

<3 dB/km, -150 350 , 100km

3500 4

1

500

20%

3

1000

Ó320mAh/g Ó1.0g/cm³ Ó88% 2000

Ó80% 3000

Ó5

500

20%

4

PVD

/

PVD

- -

/

L 25-50 a 0±1 b 0±1

△EÒ3 (LC3Ó15N Ó10GPa

96H 24H 100°

PVD

2 /

3000

5

500

20%

5

2000

Ó100 Ó15%

Ó22 kJ/m^2 Ò60%

3000 4

1

500

20%

6

Ó15

LMH/bar Ó7500 L/m^2 $MgSO_4$ Ó90%

Ò20% Ó2 Ó2 L/min

Ó95% 3000

3

1

500

20%

7

/

-

10%

20% 30%

C30-C60

70%

50% 10-20min 1

20MPa 24 40MPa 2-3

8 m^3

2

5000

2 2

6

300

20%

8

/

Cr

Cr

Ó11 cmǏ11cm (Ò2.5 mm) Ó95% 800

ºC 1000 h / Ó

100 S cm^{-1} (3000 h, 800 ºC) Ò0.1 mg cm^{-2}

Ó40000 h 800 ºC /

Ò0.5 q cm^{2} Ó1000 h Ó20000 h 100

Ò60 /

3000 Ó5

500

20%

9

3.5@10εm

Tg 170

<6×10^{-4}

n 3.5@10εm

8-12εm Ó50% Tg >170

<6×10^{-4}

Ó120mm 3

<F1.2 0.8F MTF >0.25@30lp/mm

3000

6 2

500

20%

10

DMAC

DMAC

NMP DMAC

25±2μm

≥580Mpa ≥10.0GPa

15ppm/ ≤2.0% 0.07%

3000 4

1

500

20%

11 /

/

/

Ó100 mAh/g

Ó98% / 1000 Ó85%

/ Ó2g H_2/min Ó99.9%

Ó3 Ó2

1

100

30%

12

Ò100 Ó5 mS cm^{-1}

Ó92% 1

Ó5 Ó3

100

30%

13

/ -

>70% <10

> 60%

0 Ó 6H 99.9% Ó 10000

Ó 100 N Ó 3 Ó

4

100

30%