



REPORT

CUSTOMER PO NO.:
ALS THAILAND REF NO.: ATT/ELP/14/3807-LB
DATE: 03 February 2015
COMPANY: SEI Interconnect Products (Thailand)Ltd.
700/128 Moo 5 Bangna-Trad Road, T. Klong Tam Roo
A. Muang, Chonburi 20000

DATE SAMPLE RECEIVED: 02 February 2015
DATE ANALYZED: 02 February 2015
DATE TEST COMPLETED: 02 February 2015

SAMPLE DESCRIPTION: One lot of sample was received with references:
Description: RQ15-0134 Diablo 3S APFA ww# 32
After Crest# cell#
MinAik/EngTek/TI+SUMI/Rencol/ISC
PN: 2053-209707-F25
PR: 18kn00012358
Model: Diablo 3S APFA
Surface Area: APFA = 112.20 cm² , AFA = 94.00 cm²

METHOD/PROCEDURE:

Test	Procedure No	Number of pieces used for extraction	Extraction Medium	Extraction Volume (mL)
LPC	92-004230 Rev. AK	1	0.1um Filtered Degassed DI Water	2000

Results:

The specification is based on Western Digital's document no.96-004575 Rev.AX for APFA Assembly / (CP/ECD) (3.5" Desktop)

Required Test	Particle Bin Size (µm)	Specification Limits (Particles/cm ²)	Average of 5 data points (Particles/cm ²)	PASS / FAIL
LPC	≥ 0.3	< 18000	18,272	FAIL
LPC	≥ 0.5	NA	4,961	NA

Test Method: 92-004230 Rev. AK	
Surface Area, cm ²	112.20
Extraction Vol, ml	2000
Sample Vol, ml	10
No. of Parts	1

Tank Conditions	Total Tank Volume	Sonication Freq.	Ultrasonic Power
	20.2 L	68 kHz	4.8 W/L



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Run	Accumulative Size (µm)	Blank (Counts/ml)	Sample (Counts/ml)	Blank-corrected (Counts/part)	Blank-corrected (Counts/cm ²)
1	0.3	1.87	1224.53	2445333	21794
	0.5	0.33	353.43	706200	6294
	0.7	0.03	125.00	249933	2228
	1.0	0.03	40.30	80533	718
	2.0	0.03	20.00	39933	356
2	0.3	0.43	1318.63	2636400	23497
	0.5	0.10	305.17	610133	5438
	0.7	0.07	95.90	191667	1708
	1.0	0.03	30.10	60133	536
	2.0	0.00	16.50	33000	294
3	0.3	0.23	680.20	1359933	12121
	0.5	0.13	190.00	379733	3384
	0.7	0.07	65.13	130133	1160
	1.0	0.07	21.90	43667	389
	2.0	0.07	11.70	23267	207
4	0.3	0.67	1207.53	2413733	21513
	0.5	0.13	339.97	679667	6058
	0.7	0.07	112.53	224933	2005
	1.0	0.07	34.43	68733	613
	2.0	0.03	17.67	35267	314
5	0.3	0.47	697.93	1394933	12433
	0.5	0.17	203.93	407533	3632
	0.7	0.10	71.20	142200	1267
	1.0	0.10	24.13	48067	428
	2.0	0.07	12.73	25333	226



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Statistics	Accumulative Size (μm)	Blank-corrected (Counts/part)	Blank-corrected (Counts/cm ²)
Average	0.3	2050067	18272
	0.5	556653	4961
	0.7	187773	1674
	1.0	60227	537
	2.0	31360	280
Standard Deviation	0.3	620032	5526
	0.5	153211	1366
	0.7	51622	460
	1.0	15057	134
	2.0	6951	62
%RSD Deviation	0.3	30%	30%
	0.5	28%	28%
	0.7	27%	27%
	1.0	25%	25%
	2.0	22%	22%

ALS Testing Services
(Thailand) Co.,Ltd.

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