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CRM ABS each

Code	Form	Hg	Cr	Cd	Pb
8102-a	25g(pellet)	-	27.87	10.77	108.9
8103-a	25g(pellet)	-	269.5	106.9	1084
8105-a	30 mm φ × 2 mm	-	27.5	10.7	108.28
8112-a	25g(pellet)	94.10	94.47	9.383	94.98
8113-a(02)	25g(pellet)	-	905	89.8	905
8115-a	30 mm φ × 2 mm	93.81	94.27	9.341	94.21
8116-a(02)	30 mm φ × 2 mm	-	912	90.8	916

mg/kg(ppm)

Perfluoroalkyl Substances in ABS Resin

Code	Form	Perfl uorooctanesulfonic acid
8155-a	20 mm × 20 mm × 2 m	33.1

mg/kg(ppm)

CRM PP each

Code	Form	Hg	Cr	Cd	Pb
8133-a	25g(pellet)	941.5	895.2	94.26	949.2
8136-a	30 mm φ × 2 mm	952	890.6	93.7	943.5
8137-a	25g(pellet)	Br : 303 ± 15			

mg/kg(ppm)

CRM PVC

Code	Form	Hg	Cr	Cd	Pb
8123-a	25g(pellet)	937.0	949.0	95.62	965.5

mg/kg(ppm)

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Plastics for Chemical Analysis (chips: 50g) each

Code	Hg	Cr	Cd	Pb
JSAC 0601-3	1.3	11.3	5.0	12.1
JSAC 0602-3	12.1	112.6	50.4	112.0

mg/kg(ppm)

Polyester 40mmX4mm 2/set

Code	Hg	Cr	Cd	Pb
JSAC 0631	19.7	25.8	22.5	24.5
JSAC 0632	59.4	93.3	46.1	92.9

mg/kg(ppm)

Polyester 40mmX4mm 5/set

Code	Cr	Cd	Pb
JSAC 0611	<1	<1	<1
JSAC 0612	25.5	4.5	26.1
JSAC 0613	52	10	54.6
JSAC 0614	98.6	23.8	106.8
JSAC 0615	212.8	43.4	202.2

mg/kg(ppm)

Polyester 40mmX4mm 5/set

Code	Hg
JSAC 0621	<1
JSAC 0622	10
JSAC 0623	49
JSAC 0624	121.1
JSAC 0625	244.4

mg/kg(ppm)

Polyester 40mmX4mm 5/set

Code	Br
JSAC 0651	<1
JSAC 0652	105.8
JSAC 0653	292.6
JSAC 0654	595
JSAC 0655	993

mg/kg(ppm)

Plastics (polyester) for Chemical Analysis for Chlorine (40mm dia. x 4.0mm thick.)

Code	Cl(μg/g)
JSAC PT0661-1	127
JSAC PT0661-2	223
JSAC PT0661-3	185

Polyethylene 30mmX30mmx3mm(H) 7/set

번호(RM)	Cd	Pb	Hg	Cr	As	Br
	ug/g					%
JSM P 710-1	<1	<1	<1	<1	<1	<0.001*
	5	5	5	5	9	0.002*
	50	50	51	52	86	0.035*
	114	111	112	115	187	0.05*
	264	270	254	265	478	0.15*
	522	532	546	515	907	0.27*
	$1.11x10^3$	$1.12x10^3$	$1.09x10^3$	$1.10x10^3$	$1.95x10^3$	0.62*

Plastic (polyethylene) reference material for X-ray fluorescence analysis (disk)

Code(RM)	a	b	c	d
JSM P 712-1	<0.001	0.019	0.060	0.101

%

PVC and PE 2 each 48mmX5mm

Code(RM)	Level	Cd	Pb	Hg	Cr	Br
SCAS PVC-5E6 PE-5E6	1level	0	0	0	0	0
	2level	25	50	50	50	50
	3level	50	100	100	100	100
	4level	75	300	300	300	300
	5level	100	600	600	600	600
	6level	300	1200	1200	1200	1200

mg/kg(ppm)

PVC and PE 2 each 48mmX5mm

Code(RM)	Level	Cd	Pb	Hg	Cr	Br
SCAS PVC-5E2 PE-5E2	1level	0	0	0	0	0
	2level	300	600	600	600	600

mg/kg(ppm)

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PE 48mmX5mm

Code(RM)	Level	Cl
SCAS PE-1E6	1 level	0
	2 level	43
	3 level	85
	4 level	220
	5 level	440
	6 level	1200

mg/kg(ppm)

A-PE 31X3mm set **(RM)**

Sample	PE-High	PE-Low	PE-Blank
Batch Number	PE-H-17A	PE-L-17A	PE-03A
Element	[mg/kg]	[mg/kg]	[mg/kg]
Br	1073	488	0
Hg	1101	201	0
Cr	999	400	0
Pb	1198	401	0
Cd	300	100	0

A-PVC 31X3mm set **(RM)**

Sample	PVC-High	PVC-Low	PVC-Blank
Batch Number	PVC-H-13A	PVC-L-14A	PVC-01A
Element	[mg/kg]	[mg/kg]	[mg/kg]
Br	1101	500	0
Hg	1102	201	0
Cr	1000	401	0
Pb	1203	401	0
Cd	300	101	0

Polybrominated Diphenyl Ethers in Poly(Vinyl Chloride) Resin

NMIJ CRM 8109-a(30X2mm 5EA/1ehch, blank include) mg/kg(ppm)

	Decabrominated Diphenyl Ether(1163-19-5)			
Value	333			
Uncert	13			

Polybrominated Diphenyl Ethers in Polystyrene (High Concentration)

NMIJ CRM 8110-a(30X2mm 5EA/1each, blank include) mg/kg(ppm)

	Decabrominated Diphenyl Ether(1163-19-5)			
Value	886			
Uncert	28			

Polybrominated Diphenyl Ethers in Polystyrene

NMIJ CRM 8108-b(30X2mm 5EA/1each, blank include) mg/kg(ppm)

	Decabrominated Diphenyl Ether(1163-19-5)			
Value	312			
Uncert	16			

Plastics (PBDEs) for Chemical Analysis

JSAC 0641, 0642(each 25g) µg/g(ppm)

Code	Deca	Nona	Octa	Hepta	Hexa	Penta	Tetra	Br
0641	27.2	21.2	46.9	60	16.4	28.2	18.7	170
0642	137	113	287	361	75	-	-	792

Polyethylene - Trace elements (low level)

ERM-EC680k(each 100g) mg/kg(ppm)

	As	Br	Cd	Cl	Cr	Hg	Pb	S
Value	4.1	96	19.6	102.2	20.2	4.64	13.6	76
Uncert	0.5	4	1.4	3.0	1.1	0.2	0.5	4
	Sb							
Value	10.1							
Uncert	1.6							

Additive Elements in Polyethylene

SRM 2855(3bottel x 80g each) mg/kg(ppm)

Level II	Na	P	S	Ca	Ti	Cr	Zn	
Value	16.0	22.0	21.0	37.6	10.4	2.4	415	
Uncert	1.5	1.5	1.4	5.1	0.3	0.5	20	
Level III	**Na**	**P**	**S**	**Ca**	**Ti**	**Cr**	**Zn**	
Value	16.4	41.6	41.2	77.2	10.4	2.4	807	
Uncert	1.3	2.9	3.1	2.4	0.3	0.5	15	

Cd, Cr, Pb, Br, (Hg) in acrylnitrile-butadiene-styrene (ABS)

BAM-H010(100g or 40mm x 1,2,6mm) μg/g(ppm)

	Pb	Br	Cd	Cr				
Value	479.0	240	93	470				
Uncert	17	21	5	36.0				

Polypropylene for Hazardous Elements Pellet form

113-01-002(50g) mg/kg(ppm)

	As	Ba	Cd	Cr	Hg	Pb	Zn	
Value	16.9	39.4	1.7	16.7	16.5	16.9	16.6	
Uncert	2.8	1.2	0.09	0.5	2.0	0.8	1.1	

ABS for Analysis of Hazarddous Elements, Pellet form

113-01-012(50g) mg/kg(ppm)

	As	Ba	Cd	Cr	Hg	Ni	Pb	Sb
Value	27.6	25.62	2.72	30.9	26.5	30.0	26.8	31.7
Uncert	1.0	0.45	0.45	1.6	2.0	2.7	2.5	2.9

PS(For Pthalate plasticizer analysis)

113-02-PT-002(20g PELLET 1mmx 3mm) mg/kg(ppm)

Level II	Dimethyl phthalate	Diethyl phthalate	Di-n-butyl phthalate	Butylbenzyl phthalate
Value	1054	1096	1145	1045
Uncert	25	33	51	31
	Di-2-ethylhexyl phthalate	**Di-n-octyl phthalate**		
Value	1065	1113		
Uncert	27	28		

ABS(For Pthalate plasticizer analysis)

113-02-PT-001(20g PELLET 1mmx 3mm) mg/kg(ppm)

Level II	Dimethyl phthalate	Diethyl phthalate	Di-n-butyl phthalate	Butylbenzyl phthalate
Value	782	861	868	865
Uncert	31	32	40	44
	Di-2-ethylhexyl phthalate	**Di-n-octyl phthalate**		
Value	919	928		
Uncert	36	36		

*** I wish a contact in the different CRM inquiry. (sales@odlab.co.kr)**