

Test Report

No.: TAOHL24001874501

Date: Apr 10, 2024

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Client Name: MIRACLL CHEMICALS CO., LTD.

Client Address: NO. 35 CHANGSHA ROAD, YANTAI 264006, SHANDONG, P.R.CHINA

Sample Description: MIRATHANE® TPU

Client Ref. Information: SEE ATTACHMENT

The above sample(s) and information were provided by the client.

SGS No.: QDHL24040041510T

Sample Receiving Date: Apr 03, 2024

Testing Period: Apr 03, 2024 ~ Apr 10, 2024

Test Requested: Select test(s) as requested by the client.

Testing Performed: Follow selected test(s) as requested by client.

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Sapphire

Sapphire Wang
Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	TAO24-0018745-0001.C001	Transparent grains

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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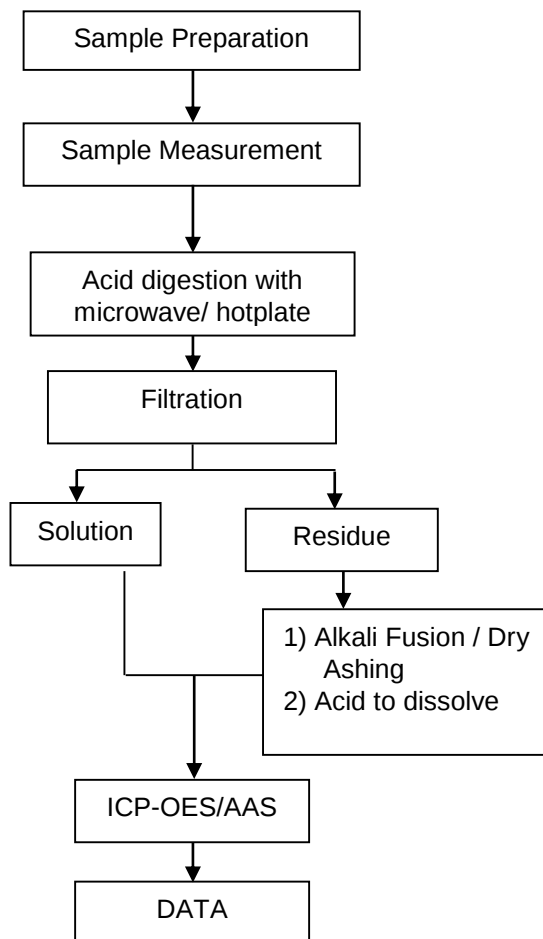
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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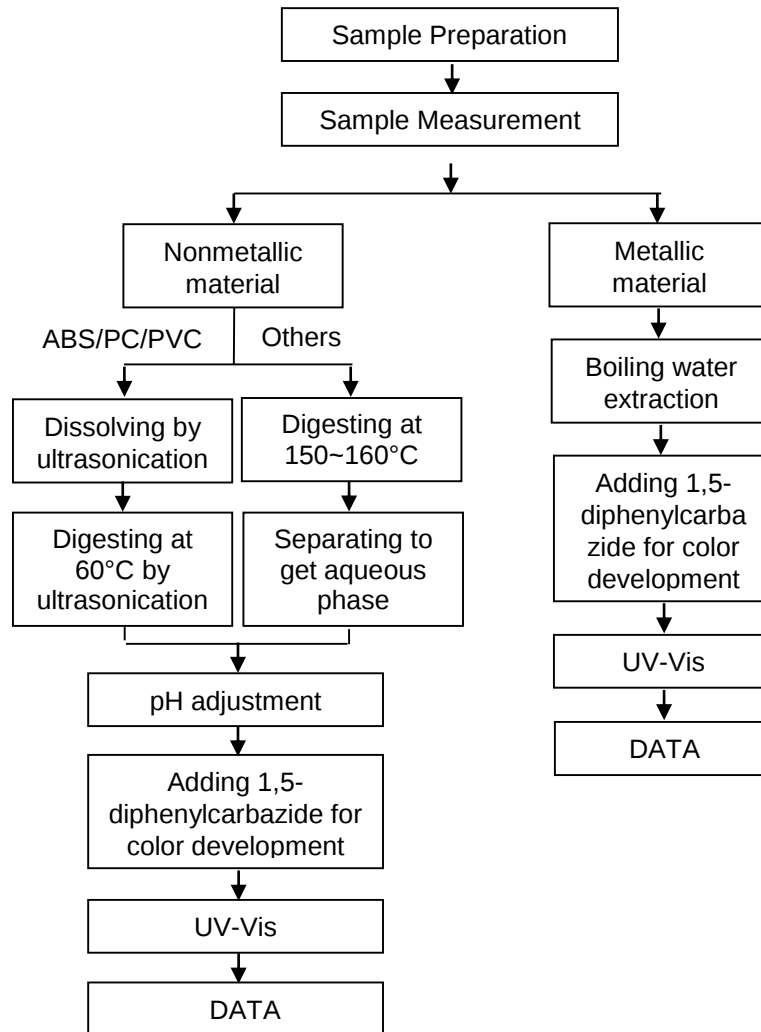
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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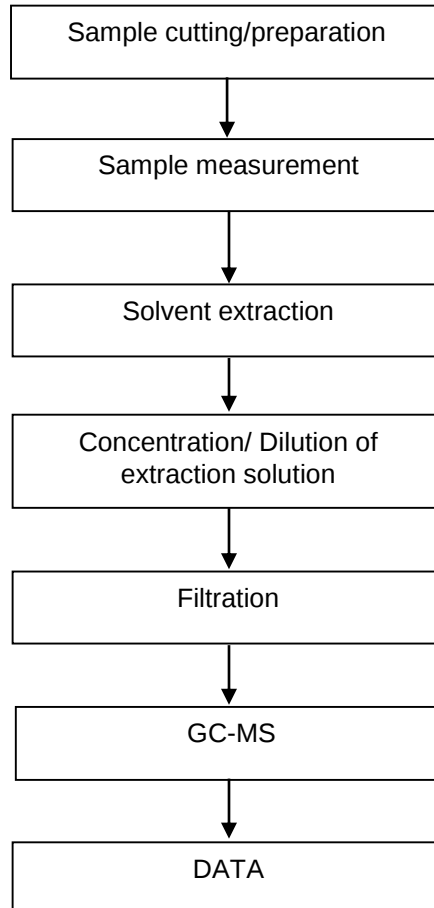
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PBB/PBDE Testing Flow Chart



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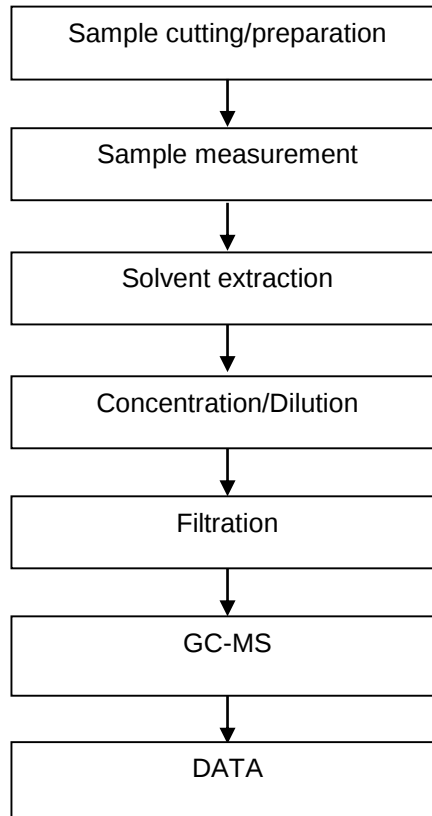
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Phthalates Testing Flow Chart



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A120	A130	A220	A230	A320
A330				
A170	A175	A180	A185	A190
A195	A165D	A175D	A270	A275
A280	A285	A290	A290S	A290F
A295	A265D	A275D	A280D	A285D
A370	A375	A385	A390	A395
A365D	A375D	A380D	A385D	A895
A870	A875	A880	A885	A890
A865D	A875D	A880D	A885D	A880S
A880F	A80D	A85D		
A970	A975	A980	A985	A990
A995	A965D	A975D	A980D	A985D
A670	A675	A680	A685	A690
A695	A655D	A665D	A675D	A680D
A685D				
C80	C85	C90	C95	
E10U	E10R	E20S	E30R	
E155D	E165D	E175D	E15B	
E175	E180	E185	E190	E195
E170U	E175U	E180U	E185U	E190U
E195U	E180F	E185F	E190F	E195F
E190k	E155DU	E165DU		
E180W	E185W	E190W	E195W	E180Z
E185Z	E190Z	E195Z	E185S	E195S
E180L	E185L	E190L	E195L	E180LB
E185LU	E190LU	E195LU	E155DL	E165DL
E255	E260	E265	E270	E275
E280	E285	E290	E295	E270S
E255U	E260U	E265U	E270U	E275U
E370	E375	E380	E385	E390
E395	E355D	E365D	E375D	E370U
E375U	E380U	E385U	E390U	E395U
E355DU	E365DU	E375DU		
E485	E570	E580	E585	E590



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E595	E585S	E55DF	E55DS	E55DU
E60	E65	E680	E685	E690
E695	E655D	E665D	E675D	E680U
E685U	E690U	E695U	E685S	E685B
E685F	E65DU	E655DU	E665DU	E675DU
E70	E75	E80	E85	E90
E95	E70S	E75S	E80S	E85S
E70U	E75U	E75F	E90S	E75DU
E80U	E85U	E90U	E95U	E85F
E60S	E65S	E60SBK	E60DBK	E65SBK
E70CW	E75CL	E75CB	E75CO	E75CR
E75CY	E85CG	E385GY	E55DU	E95CL
E70SBL	E75SBL	E80SBL	E85SBL	E70SBK
E80SBK	E85SBK	E90SBK	E55DBK	E55DGY
E180GR	E180OR	E180BL	E180GY	E180YL
E180RD	E180WT	E180PL	E180PK	E180BK
E180WR	E185WR	E190WR	E195WR	
E185GR	E185OR	E185BL	E185GY	E185YL
E185RD	E185WT	E185PL	E185PK	E185BK
E190GR	E190OR	E190BL	E190GY	E190YL
E190RD	E190WT	E190PL	E190PK	E190BK
E195GR	E195OR	E195BL	E195GY	E195YL
E195RD	E195WT	E195PL	E195PK	E195BK
E70DU	E70DBK	E70DPK	E70DRD	E70DOG
E70DYL	E70DGR	E70DBL	E70DGY	E70DWT
E85CB	E85CR	E85CP	E85CV	E85CL
E95BLA	E95BLB	E95BLC	E95UBL	E98BLA
E98BLB	E98BLC			
F155	F160	F165	F170	F175
F615	F620	F630	F640	F650
F815	F820	F830	F840	F850
F915	F920	F930	F940	F950
F910	F710	F910G	F610	F715BK
F915BK	F715	F120	F710	F615
F710BK	F710T	F710TBK	F710GR	F620GR
F910T	F910TBK			



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G70	G75	G80	G85	G90
G180	G185	G190	G195	
G180U	G185U	G190U	G195U	
G350	G360	G365	G370	G375
G385	G495	G350P	G360P	G365P
G390	G395			
G95BLA	G95BLB	G95BLC	G98BLA	G98BLB
G98BLC	G155D	G155DU		
G680	G685	G690	G695	G655D
H301	H201	H320E		
H101	H103	H112	H120	H130
H140	H190	H206	H210	H220
H212	H230	H240	H290	H220E
H290H	H290L	H295	H295H	H190H
H306	H320	H390	H590	H370
H565	H570	H575	H580	H585
H660	H670	H675	H680	H685
H690	H695	H780	H785	H870
H420	H401	H430	H440	H406
H220A	H201A	H230A	H240A	H206A
H570G	H680G	H690G	H860W	H410
H260	H685A			
I80D	I85D			
L80	L85	L90	L95	L120
L330	L55D	L65D	L75D	
L130	L220	L230	L320	
M180	M185	M190	M195	M190S
M180G	M185G	M190G	M10R	
M255	M260	M265	M270	M275
M280	M285	M290	M295	
M255D	M265D	M275D	M280D	
M355	M360	M365	M370	M375
M380	M385	M390	M395	
M355D	M365D	M375D	M55	
M60	M65	M70	M75	M80
M85	M88	M90	M95	M90S



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M70F	M75F	M80F	M85F	M90F
M95F	M55D	M65D	M80FBK	M85FBK
M80W	M85W	M90W	M95W	
M80Z	M85Z	M90Z	M95Z	
M60U	M65U	M70U	M75U	M80U
M85U	M90U	M55DU	M65DU	M95U
M385BK	M385GR	M385RD	M385BL	M385PK
M60S	M65S	M60SBK	M65SBK	
M85GR	M85OR	M85BL	M85GY	M85YL
M85RD	M85WT	M85PL	M85PK	M85BK
M385YL	M85WR	M90FBK	M95FBK	M85FBL
M85FBL	M90FBL	M80CB		
M75T	M80T	M85T	M90T	M95T
R1020A	R1030A	R1040A	R1080A	R2020A
R2030A	R2040A	R2080	R3005	R3005L
R3010	R3015	R4005	R4005T	R4020
R4020N	R4305T			
S55	S60	S65	S70	S75
S80	S85	S90	S95	
S55D	S65D	S70D	S75D	
S155	S160	S165	S170	S175
S180	S185	S190	S195	
S155D	S165D	S175D	S185D	
S255	S260	S265	S270	S275
S280	S285	S290	S295	
S255D	S265D	S270D	S275D	
S355	S360	S365	S370	S375
S380	S385	S390	S395	
S355D	S365D	S370D	S375D	
S455	S460	S465	S470	S475
S480	S485	S490	S495	
S455D	S465D	S470D	S475D	
S555	S560	S565	S570	S575
S580	S585	S590	S595	
S555D	S565D	S570D	S575D	
S655	S660	S665	S670	S675



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S680	S685	S690	S695	
S655D	S665D	S670D	S675D	
S755	S760	S765	S770	S775
S780	S785	S790	S795	
S70T	S75T	S80T	S85T	S90T
S65LY	S65LB	S65DB	S95T	
S65GR	S650R	S65BL	S65GY	S65YL
S65RD	S65WT	S65PL	S65PK	S65BK
S65WR	S70WR	S75WR	S80WR	S85WR
S70LY	S70LB	S70DB		
S70GR	S700R	S70BL	S70GY	S70YL
S70RD	S70WT	S70PL	S70PK	S70BK
S75LY	S75LB	S75DB		
S75GR	S750R	S75BL	S75GY	S75YL
S75RD	S75WT	S75PL	S75PK	S75BK
S80LY	S80LB	S80DB	S80F	S80FBK
S80GR	S800R	S80BL	S80GY	S80YL
S80RD	S80WT	S80PL	S80PK	S80BK
S85LY	S85LB	S85DB	S85FBK	S85F
S85GR	S850R	S85BL	S85GY	S85YL
S85RD	S85WT	S85PL	S85PK	S85BK
S90LY	S90LB	S90DB		
S90GR	S900R	S90BL	S90GY	S90YL
S90RD	S90WT	S90PL	S90PK	S90BW
S90NM	S90NY	S90RS	S90NB	S90ND
S90LD	S90LI	S90RB	S90BK	S90WR
S900G	S95WR	S90F	S90FBK	S95F
S95LY	S95LB	S95DB	S95FBK	
S95GR	S950R	S95BL	S95GY	S95YL
S95RD	S95WT	S95PL	S95PK	S95BK
V165	V170	V180	V185	V70
V575	V75CG	V65CG	V65CB	
V165LY	V165LB	V165DB		
V165GR	V1650R	V165BL	V165GY	V165YL
V165RD	V165WT	V165PL	V165PK	V165BW
V165NM	V165NY	V165RS	V165NB	V165ND



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V165LD	V165LI	V165RB	V165BK	V165WR
V165OG	V1700G	V1750G		
V170LY	V170LB	V170DB		
V170GR	V1700R	V170BL	V170GY	V170YL
V170RD	V170WT	V170PL	V170PK	V170BW
V170NM	V170NY	V170RS	V170NB	V170ND
V170LD	V170LI	V170RB	V170BK	V170WR
V175GR	V1750R	V175BL	V175GY	V175YL
V175RD	V175WT	V175PL	V175PK	V175BW
V175NM	V175NY	V175RS	V175NB	V175ND
V175LD	V175LI	V175RB	V175BK	V175WR
V180GR	V1800R	V180BL	V180GY	V180YL
V180RD	V180WT	V180PL	V180PK	V180BK
V185LY	V185LB	V185DB		
V185GR	V1850R	V185BL	V185GY	V185YL
V185RD	V185WT	V185PL	V185PK	V185BK
V190LY	V190LB	V190DB		
V190GR	V1900R	V190BL	V190GY	V190YL
V190RD	V190WT	V190PL	V190PK	V190BK
V180WR	V185WR	V190WR	V195WR	
V195LY	V195LB	V195DB		
V195GR	V1950R	V195BL	V195GY	V195YL
V195RD	V195WT	V195PL	V195PK	V195BK
V965GR	V9650R	V965BL	V965GY	V965YL
V965RD	V965WT	V965PL	V965PK	V965BW
V965NM	V965NY	V965RS	V965NB	V965ND
V965LD	V965LI	V965RB	V965BK	V965WR
V965OG				
V970GR	V9700R	V970BL	V970GY	V970YL
V970RD	V970WT	V970PL	V970PK	V970BW
V970NM	V970NY	V970RS	V970NB	V970ND
V970LD	V970LI	V970RB	V970BK	V970WR
V970OG				
V975GR	V9750R	V975BL	V975GY	V975YL
V975RD	V975WT	V975PL	V975PK	V975BW
V975NM	V975NY	V975RS	V975NB	V975ND



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V975LD	V975LI	V975RB	V975BK	V975WR
V975OG				
V980GR	V980OR	V980BL	V980GY	V980YL
V980RD	V980WT	V980PL	V980PK	V980BW
V980NM	V980NY	V980RS	V980NB	V980ND
V980LD	V980LI	V980RB	V980BK	V980WR
V980OG				
V985GR	V985OR	V985BL	V985GY	V985YL
V985RD	V985WT	V985PL	V985PK	V985BW
V985NM	V985NY	V985RS	V985NB	V985ND
V985LD	V985LI	V985RB	V985BK	V985WR
V985OG				
V990GR	V990OR	V990BL	V990GY	V990YL
V990RD	V990WT	V990PL	V990PK	V990BW
V990NM	V990NY	V990RS	V990NB	V990ND
V990LD	V990LI	V990RB	V990BK	V990WR
V990OG				
V575GR	V575OR	V575BL	V575GY	V575YL
V575RD	V575WT	V575PL	V575PK	V575BK
V575WR	V700G			
V70GR	V70OR	V70BL	V70GY	V70YL
V70RD	V70WT	V70PL	V70PK	V70BW
V70NM	V70NY	V70RS	V70NB	V70ND
V70LD	V70LI	V70RB	V70BK	V70WR
W360	W360P	W360BK	W360WT	W360GR
W360GY	W360BL	W360RD	W360PK	W360PL
W365	W365P	W365BK	W365WT	W360LB
W365GR	W365BL	W365RD	W365PK	W365PL
W365LB	W370	W370P	W370BL	W370RD
W370PK	W370PL	W370LB	W375	W375P
W370GY	W375GY	W380GY	W385GY	
W375BL	W375RD	W375PK	W375PL	W375LB
W380	W380P	W380BL	W380RD	W380PK
W380PL	W380LB	W385	W385P	W385BL
W385RD	W385PK	W385PL	W385LB	
W390	W390GY	W390P	W390BL	W390RD



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W390PK	W390PL	W390LB	W380BD	
W395	W395P	W395BL	W395RD	W395GY
W395PK	W395PL	W395LB	W390T	W395T
W370BK	W375BK	W380BK	W385BK	W390BK
W370WT	W375WT	W380WT	W385WT	W390WT
W370GR	W375GR	W380GR	W385GR	W390GR
W1070	W1075	W1080	W1085	W1090
W395BK	W395WT	W395GR	W1095	W1065



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