



DRIVE DESIGN
AND TECHNICAL MANUAL

**HIGH PERFORMANCE POWERPLUS 2.
RUBBER TIMING BELT CURVILINEAR**

**DRIVE BELT
TECHNOLOGY .**

SECTION 2.1.11 | TIMING BELTS | RUBBER BELTS

DIN 7721 / ISO 13050 / IP27 RMA-MPTA

HIGH PERFORMANCE POWERPLUS 2. RUBBER TIMING BELT CURVILINEAR
3M, 5M, 8M, 14M OR S3M, S5M, S8M, S14M OR R5M, R8M, R14M OR GT2, GT3

FEATURES

The latest and greatest technology deployed in rubber Timing Belts.

This is the highest power rating Timing Belt within the range of CMW Power Transmission, indeed the PowerPlus 2 is a 4th generation Timing Belt.

Based on the latest rubber technology advanced materials, CMW Power Transmission designed a Timing Belt with extreme power rating capability.

With higher temperature resistance up to +140°C, as well as the lowest temperature resistance down to -40°C, it represents the largest temperature range capability.

Test and approved the superior longevity, specifications to performance, and uptime operating running.

Thanks to the superior features, the CMW Power Transmission PowerPlus 2 can be used in replacement of PowerPlus or standard with and advantageous reduction of the width of belt thanks to greater power rating capability, thus the overall reduction of weight of drive is lighter as pulleys are also downsided.

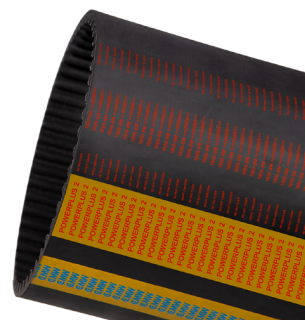
With rubber formulated in USA or in Germany, based on EPDM rubber (ethylene propylene diene monomer), it combines the very best in technology and construction design to give improved performance and extended product life.

STRUCTURE DETAILS

Rubber teeth and backing

Formulated in USA backing and teeth rubber is based on a high performance eco-friendly EPDM (ethylene propylene diene monomer) elastomer high-torque synchronous belt.

They are precisely formed and accurately spaced to assure smooth meshing with the sprocket grooves.



Alike our standard rubber Timing Belt, the glass fiber cord produced in Japan, has been specially designed for maximum bonding with EPDM rubber backing and teeth.

Demonstrated advantages:

- Extensive Temperature Range
- Superior Power Rating Capacity
- Maximize longevity and uptime running
- Perfect Teeth profile and high resistance
- Low noise
- No stretch
- No corrosion, no lubrication

Meets RoHS and REACH requirements

Tensile cord

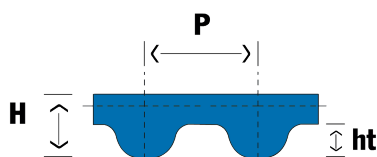
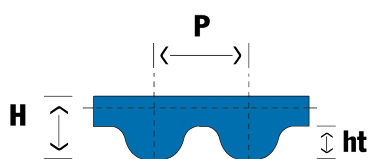
Coming from Japan, our extreme performant glass fiber cord, is perfectly bonded to the EPDM rubber, and deliver no stretch, high strength.

Fabric facing

Provides high strength, excellent flex life and high resistance to elongation.

2.1.11 HIGH PERFORMANCE POWERPLUS 2. RUBBER TIMING BELT CURVILINEAR

Dimensions



ISO 13050	3M	5M	8M	14M
Pitch (mm)	3.0	5.0	8.0	14.0
Height (mm)	117	2.06	3.38	6.02
Width (mm)	1.78	3.05	5.15	9.40
Foot radius (mm)	0.26	0.42	0.70	1.25
Head radius (mm)	0.87	1.49	2.46	4.50
Belt thickness (mm)	2.40	3.80	6.00	10.00
Belt weight per meter per 10mm width (Kg/m)	0.031	0.041	0.063	0.108
Min. Crimp (mm)	15	25	40	70
Teeth range (min-max)	33 - 1866	36 - 1120	45 - 700	65 - 400
Pitch length (mm)	99 - 5598	180 - 5600	360 - 5600	910 - 5600

ISO 13050	S3M	S5M	S8M	S14M
Pitch (mm)	3.0	5.0	8.0	14.0
Height (mm)	114	1.91	3.05	5.30
Width (mm)	1.95	3.25	5.20	9.10
Foot radius (mm)	0.30	0.50	0.80	1.40
Head radius (mm)	0.30	0.50	0.80	1.40
Belt thickness (mm)	2.20	3.41	5.30	10.20
Belt weight per meter per 10mm width (Kg/m)	0.035	0.048	0.068	0.120
Min. Crimp (mm)	33 - 1866	36 - 1120	45 - 700	65 - 400
Teeth range (min-max)	99 - 5598	180 - 5600	360 - 5600	910 - 5600

Applications



Appliances/
Machinery



Food &
Beverage



Logistic/
Movement



Packaging



Technology
& Robots

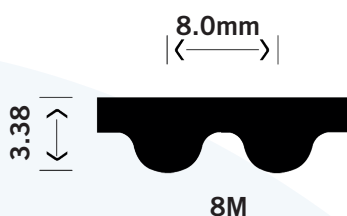
Marking

	CMW	POWERPLUS 2	NE PAS PLIER	3850-14-60 >> HNBR <<	ISO ANTI STATIC	batch code/worker code + posi
Cut Belt	CMW	POWERPLUS 2	DO NOT CRIMP	3850-14-60 >> HNBR <<	SILICON FREE	batch code/worker code + posi
	CMW	POWERPLUS 2	N I G H T KNICKEN	3850-14-60 >> HNBR <<	ISO ANTI STATIC	batch code/worker code + posi
	CMW	POWERPLUS 2	NE PAS PLIER	3850-14-60 >> HNBR <<	SILICON FREE	batch code/worker code + posi
	CMW	POWERPLUS 2	DO NOT CRIMP	3850-14-60 >> HNBR <<	ISO ANTI STATIC	batch code/worker code + posi
	CMW	POWERPLUS 2	N I G H T KNICKEN	3850-14-60 >> HNBR <<	SILICON FREE	batch code/worker code + posi
Sleeves	CMW	POWERPLUS 2	NE PAS PLIER	1800-8M >> HNBR <<	ISO ANTI STATIC	batch code/worker code + posi
	CMW	POWERPLUS 2	DO NOT CRIMP	1800-8M >> HNBR <<	SILICON FREE	batch code/worker code + posi
	CMW	POWERPLUS 2	N I G H T KNICKEN	1800-8M >> HNBR <<	ISO ANTI STATIC	batch code/worker code + posi
	CMW	POWERPLUS 2	NE PAS PLIER	1800-8M >> HNBR <<	SILICON FREE	batch code/worker code + posi
	CMW	POWERPLUS 2	DO NOT CRIMP	1800-8M >> HNBR <<	ISO ANTI STATIC	batch code/worker code + posi
CMW	POWERPLUS 2	N I G H T KNICKEN	1800-8M >> HNBR <<	SILICON FREE	batch code/worker code + posi	

Product Codification

Example	PP2-1610-14M-480 means	PP2	1610	14M	480
		High Performance 2 line	Length in mm / 1610mm	Section H14M Pitch 14 mm	Width 480 mm
	PP2-800-S8M-55 means	PP2	800	S8M	55
		High Performance 2 line	Length in mm / 800	Section S 8M Pitch 8 mm	Width 55 mm

2.1.11 HIGH PERFORMANCE POWERPLUS 2. RUBBER TIMING BELT CURVILINEAR



Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
PP2-488-8M-450	3666445023065	61	488
PP2-496-8M-450	3666445023058	62	496
PP2-512-8M-450	3666445023041	64	512
PP2-520-8M-450	3666445023034	65	520
PP2-528-8M-450	3666445023027	66	528
PP2-536-8M-450	3666445023010	67	536
PP2-544-8M-450	3666445023003	68	544
PP2-552-8M-450	3666445022990	69	552
PP2-560-8M-450	3666445022983	70	560
PP2-568-8M-450	3666445022976	71	568
PP2-576-8M-450	3666445022969	72	576
PP2-584-8M-450	3666445022952	73	584
PP2-592-8M-450	3666445022945	74	592
PP2-600-8M-450	3666445022938	75	600
PP2-608-8M-450	3666445022921	76	608
PP2-616-8M-450	3666445022914	77	616
PP2-624-8M-450	3666445022907	78	624
PP2-632-8M-450	3666445022891	79	632
PP2-640-8M-450	3666445022884	80	640
PP2-648-8M-450	3666445022877	81	648
PP2-656-8M-450	3666445022860	82	656
PP2-664-8M-450	3666445022853	83	664
PP2-672-8M-450	3666445022846	84	672
PP2-680-8M-450	3666445022839	85	680
PP2-688-8M-450	3666445022822	86	688
PP2-696-8M-450	3666445022815	87	696
PP2-704-8M-450	3666445022808	88	704
PP2-712-8M-450	3666445022792	89	712
PP2-720-8M-450	3666445022785	90	720
PP2-728-8M-450	3666445022778	91	728
PP2-736-8M-450	3666445022761	92	736
PP2-744-8M-450	3666445022754	93	744
PP2-752-8M-450	3666445022747	94	752
PP2-760-8M-450	3666445022730	95	760
PP2-768-8M-450	3666445022723	96	768
PP2-776-8M-450	3666445022716	97	776
PP2-784-8M-450	3666445022709	98	784
PP2-792-8M-450	3666445022693	99	792
PP2-800-8M-450	3666445022686	100	800
PP2-808-8M-450	3666445022679	101	808
PP2-816-8M-450	3666445022662	102	816
PP2-824-8M-450	3666445022655	103	824
PP2-832-8M-450	3666445022648	104	832
PP2-840-8M-450	3666445022631	105	840
PP2-848-8M-450	3666445022624	106	848
PP2-856-8M-450	3666445022617	107	856
PP2-864-8M-450	3666445022600	108	864
PP2-872-8M-450	3666445022594	109	872
PP2-880-8M-450	3666445022587	110	880
PP2-888-8M-450	3666445022570	111	888
PP2-896-8M-450	3666445022563	112	896
PP2-904-8M-450	3666445022556	113	904
PP2-912-8M-450	3666445022549	114	912
PP2-920-8M-450	3666445022532	115	920
PP2-928-8M-450	3666445022525	116	928
PP2-936-8M-450	3666445022518	117	936
PP2-944-8M-960	3666445022501	118	944
PP2-952-8M-450	3666445022495	119	952
PP2-960-8M-450	3666445022488	120	960
PP2-968-8M-450	3666445022471	121	968
PP2-976-8M-450	3666445022464	122	976
PP2-984-8M-450	3666445022457	123	984
PP2-992-8M-450	3666445022440	124	992
PP2-1000-8M-450	3666445022433	125	1000

Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
PP2-1008-8M-960	3666445022426	126	1008
PP2-1016-8M-450	3666445022419	127	1016
PP2-1024-8M-450	3666445022402	128	1024
PP2-1032-8M-450	3666445022396	129	1032
PP2-1040-8M-450	3666445022389	130	1040
PP2-1048-8M-450	3666445022372	131	1048
PP2-1056-8M-450	3666445022365	132	1056
PP2-1064-8M-450	3666445022358	133	1064
PP2-1072-8M-450	3666445022341	134	1072
PP2-1080-8M-450	3666445022334	135	1080
PP2-1088-8M-450	3666445022327	136	1088
PP2-1096-8M-450	3666445022310	137	1096
PP2-1104-8M-450	3666445022303	138	1104
PP2-1112-8M-450	3666445022297	139	1112
PP2-1120-8M-450	3666445022280	140	1120
PP2-1128-8M-450	3666445022273	141	1128
PP2-1136-8M-450	3666445022266	142	1136
PP2-1144-8M-450	3666445022259	143	1144
PP2-1152-8M-450	3666445022242	144	1152
PP2-1160-8M-450	3666445022235	145	1160
PP2-1168-8M-450	3666445022228	146	1168
PP2-1176-8M-450	3666445022211	147	1176
PP2-1184-8M-450	3666445022204	148	1184
PP2-1192-8M-450	3666445022198	149	1192
PP2-1200-8M-450	3666445022181	150	1200
PP2-1208-8M-450	3666445022174	151	1208
PP2-1216-8M-450	3666445022167	152	1216
PP2-1224-8M-450	3666445022150	153	1224
PP2-1232-8M-450	3666445022143	154	1232
PP2-1240-8M-450	3666445022136	155	1240
PP2-1248-8M-450	3666445022129	156	1248
PP2-1256-8M-450	3666445022112	157	1256
PP2-1264-8M-450	3666445022105	158	1264
PP2-1272-8M-450	3666445022099	159	1272
PP2-1280-8M-450	3666445022082	160	1280
PP2-1288-8M-450	3666445022075	161	1288
PP2-1296-8M-450	3666445022068	162	1296
PP2-1304-8M-450	3666445022051	163	1304
PP2-1312-8M-450	3666445022044	164	1312
PP2-1320-8M-450	3666445022037	165	1320
PP2-1328-8M-450	3666445022020	166	1328
PP2-1336-8M-450	3666445022013	167	1336
PP2-1344-8M-450	3666445022006	168	1344
PP2-1352-8M-450	3666445021993	169	1352
PP2-1360-8M-450	3666445021986	170	1360
PP2-1368-8M-450	3666445021979	171	1368
PP2-1376-8M-450	3666445021962	172	1376
PP2-1384-8M-450	3666445021955	173	1384
PP2-1392-8M-450	3666445021948	174	1392
PP2-1400-8M-450	3666445021931	175	1400
PP2-1408-8M-450	3666445021924	176	1408
PP2-1416-8M-450	3666445021917	177	1416
PP2-1424-8M-450	3666445021900	178	1424
PP2-1432-8M-450	3666445021894	179	1432
PP2-1440-8M-450	3666445021887	180	1440
PP2-1448-8M-450	3666445021870	181	1448
PP2-1456-8M-450	3666445021863	182	1456
PP2-1464-8M-450	3666445021856	183	1464
PP2-1480-8M-450	3666445021849	185	1480
PP2-1488-8M-450	3666445021832	186	1488
PP2-1496-8M-450	3666445021825	187	1496
PP2-1504-8M-450	3666445021818	188	1504
PP2-1512-8M-450	3666445021801	189	1512
PP2-1520-8M-450	3666445021795	190	1520

2.1.11 HIGH PERFORMANCE POWERPLUS 2. RUBBER TIMING BELT CURVILINEAR

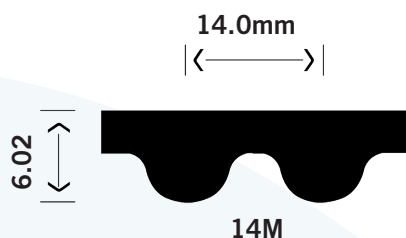
Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
PP2-1528-8M-450	3666445021788	191	1528
PP2-1536-8M-450	3666445021771	192	1536
PP2-1552-8M-450	3666445021764	194	1552
PP2-1560-8M-450	3666445021757	195	1560
PP2-1568-8M-450	3666445021740	196	1568
PP2-1576-8M-450	3666445021733	197	1576
PP2-1584-8M-450	3666445021726	198	1584
PP2-1600-8M-450	3666445021719	200	1600
PP2-1608-8M-450	3666445021702	201	1608
PP2-1616-8M-450	3666445021696	202	1616
PP2-1624-8M-450	3666445021689	203	1624
PP2-1640-8M-450	3666445021672	205	1640
PP2-1648-8M-450	3666445021665	206	1648
PP2-1656-8M-450	3666445021658	207	1656
PP2-1680-8M-450	3666445021641	210	1680
PP2-1696-8M-450	3666445021634	212	1696
PP2-1704-8M-450	3666445021627	213	1704
PP2-1720-8M-450	3666445021610	215	1720
PP2-1728-8M-450	3666445021603	216	1728
PP2-1736-8M-450	3666445021597	217	1736
PP2-1744-8M-450	3666445021580	218	1744
PP2-1760-8M-450	3666445021573	220	1760
PP2-1768-8M-450	3666445021566	221	1768
PP2-1776-8M-450	3666445021559	222	1776
PP2-1784-8M-450	3666445021542	223	1784
PP2-1792-8M-450	3666445021535	224	1792
PP2-1800-8M-450	3666445021528	225	1800
PP2-1816-8M-450	3666445021511	227	1816
PP2-1824-8M-450	3666445021504	228	1824
PP2-1840-8M-450	3666445021498	230	1840
PP2-1848-8M-450	3666445021481	231	1848
PP2-1856-8M-450	3666445021474	232	1856
PP2-1872-8M-450	3666445021467	234	1872
PP2-1880-8M-450	3666445021450	235	1880
PP2-1888-8M-450	3666445021443	236	1888
PP2-1896-8M-450	3666445021436	237	1896
PP2-1904-8M-450	3666445021429	238	1904
PP2-1912-8M-450	3666445021412	239	1912
PP2-1920-8M-450	3666445021405	240	1920
PP2-1936-8M-450	3666445021399	242	1936
PP2-1944-8M-450	3666445021382	243	1944
PP2-1952-8M-450	3666445021375	244	1952
PP2-1960-8M-450	3666445021368	245	1960
PP2-2000-8M-450	3666445021351	250	2000
PP2-2008-8M-450	3666445021344	251	2008
PP2-2016-8M-450	3666445021337	252	2016
PP2-2032-8M-450	3666445021320	254	2032
PP2-2048-8M-450	3666445021313	256	2048
PP2-2056-8M-450	3666445021306	257	2056
PP2-2080-8M-450	3666445021290	260	2080
PP2-2096-8M-450	3666445021283	262	2096
PP2-2104-8M-450	3666445021276	263	2104
PP2-2120-8M-450	3666445021269	265	2120
PP2-2128-8M-450	3666445021252	266	2128
PP2-2152-8M-450	3666445021245	269	2152
PP2-2160-8M-960	3666445021238	270	2160
PP2-2176-8M-450	3666445021221	272	2176
PP2-2184-8M-450	3666445021214	273	2184
PP2-2200-8M-450	3666445021207	275	2200
PP2-2208-8M-450	3666445021191	276	2208
PP2-2224-8M-450	3666445021184	278	2224
PP2-2232-8M-450	3666445021177	279	2232
PP2-2240-8M-450	3666445021160	280	2240
PP2-2248-8M-450	3666445021153	281	2248

Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
PP2-2256-8M-450	3666445021146	282	2256
PP2-2272-8M-450	3666445021139	284	2272
PP2-2304-8M-450	3666445021122	288	2304
PP2-2312-8M-450	3666445021115	289	2312
PP2-2320-8M-450	3666445021108	290	2320
PP2-2328-8M-450	3666445021092	291	2328
PP2-2344-8M-450	3666445021085	293	2344
PP2-2352-8M-450	3666445021078	294	2352
PP2-2392-8M-450	3666445021061	299	2392
PP2-2400-8M-450	3666445021054	300	2400
PP2-2488-8M-450	3666445021047	311	2488
PP2-2504-8M-450	3666445021030	313	2504
PP2-2520-8M-450	3666445021023	315	2520
PP2-2536-8M-450	3666445021016	317	2536
PP2-2560-8M-450	3666445021009	320	2560
PP2-2600-8M-450	3666445020996	325	2600
PP2-2688-8M-450	3666445020989	336	2688
PP2-2736-8M-450	3666445020972	342	2736
PP2-2800-8M-450	3666445020965	350	2800
PP2-2840-8M-450	3666445020958	355	2840
PP2-2848-8M-450	3666445020941	356	2848
PP2-2880-8M-450	3666445020934	360	2880

2.1.11 HIGH PERFORMANCE POWERPLUS 2. RUBBER TIMING BELT CURVILINEAR



Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
PP2-588-14M-450	3666445020927	42	588
PP2-784-14M-450	3666445020910	56	784
PP2-840-14M-450	3666445020903	60	840
PP2-882-14M-450	3666445020897	63	882
PP2-924-14M-450	3666445020880	66	924
PP2-938-14M-450	3666445020873	67	938
PP2-966-14M-450	3666445020866	69	966
PP2-1008-14M-450	3666445020859	72	1008
PP2-1036-14M-450	3666445020842	74	1036
PP2-1050-14M-450	3666445020835	75	1050
PP2-1064-14M-450	3666445020828	76	1064
PP2-1092-14M-450	3666445020811	78	1092
PP2-1120-14M-450	3666445020804	80	1120
PP2-1148-14M-450	3666445020798	82	1148
PP2-1176-14M-450	3666445020781	84	1176
PP2-1190-14M-450	3666445020774	85	1190
PP2-1246-14M-450	3666445020767	89	1246
PP2-1260-14M-450	3666445020750	90	1260
PP2-1288-14M-450	3666445020743	92	1288
PP2-1302-14M-450	3666445020736	93	1302
PP2-1316-14M-450	3666445020729	94	1316
PP2-1330-14M-450	3666445020712	95	1330
PP2-1344-14M-450	3666445020705	96	1344
PP2-1358-14M-450	3666445020699	97	1358
PP2-1400-14M-450	3666445020682	100	1400
PP2-1414-14M-450	3666445020675	101	1414
PP2-1442-14M-450	3666445020668	103	1442
PP2-1456-14M-450	3666445020661	104	1456
PP2-1470-14M-450	3666445020644	105	1470
PP2-1512-14M-450	3666445020637	108	1512
PP2-1540-14M-450	3666445020620	110	1540
PP2-1568-14M-450	3666445020613	112	1568
PP2-1610-14M-450	3666445020606	115	1610
PP2-1638-14M-450	3666445020590	117	1638
PP2-1652-14M-450	3666445020583	118	1652
PP2-1680-14M-450	3666445020576	120	1680
PP2-1736-14M-450	3666445020569	124	1736
PP2-1750-14M-450	3666445020552	125	1750
PP2-1764-14M-450	3666445020545	126	1764
PP2-1778-14M-450	3666445020538	127	1778
PP2-1792-14M-450	3666445020521	128	1792
PP2-1806-14M-450	3666445020514	129	1806
PP2-1820-14M-450	3666445020507	130	1820
PP2-1848-14M-450	3666445020491	132	1848
PP2-1890-14M-450	3666445020484	135	1890
PP2-1904-14M-450	3666445020477	136	1904
PP2-1932-14M-450	3666445020460	138	1932
PP2-1946-14M-450	3666445020453	139	1946
PP2-1960-14M-450	3666445020446	140	1960
PP2-1988-14M-450	3666445020439	142	1988
PP2-2002-14M-450	3666445020422	143	2002
PP2-2044-14M-450	3666445020415	146	2044
PP2-2100-14M-450	3666445020408	150	2100
PP2-2142-14M-450	3666445020392	153	2142
PP2-2198-14M-450	3666445020385	157	2198
PP2-2240-14M-450	3666445020378	160	2240
PP2-2310-14M-450	3666445020361	165	2310
PP2-2338-14M-450	3666445020354	167	2338
PP2-2380-14M-450	3666445020347	170	2380
PP2-2450-14M-450	3666445020330	175	2450
PP2-2506-14M-450	3666445020323	179	2506
PP2-2520-14M-450	3666445020316	180	2520
PP2-2590-14M-450	3666445020309	185	2590
PP2-2660-14M-450	3666445020293	190	2660

Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
PP2-2688-14M-450	3666445020286	192	2688
PP2-2730-14M-450	3666445020279	195	2730
PP2-2800-14M-450	3666445020262	200	2800
PP2-2940-14M-450	3666445020255	210	2940
PP2-3038-14M-450	3666445020248	217	3038
PP2-3150-14M-450	3666445020231	225	3150
PP2-3220-14M-450	3666445020224	230	3220
PP2-3346-14M-450	3666445020217	239	3346
PP2-3360-14M-450	3666445020200	240	3360
PP2-3430-14M-450	3666445020194	245	3430
PP2-3486-14M-450	3666445020187	249	3486
PP2-3500-14M-450	3666445020170	250	3500
PP2-3710-14M-450	3666445020163	265	3710
PP2-3780-14M-450	3666445020156	270	3780
PP2-3850-14M-450	3666445020149	275	3850
PP2-4004-14M-450	3666445020132	286	4004
PP2-4060-14M-450	3666445020125	290	4060
PP2-4102-14M-450	3666445020118	293	4102
PP2-4256-14M-450	3666445020101	304	4256
PP2-4284-14M-450	3666445020095	306	4284
PP2-4326-14M-450	3666445020088	309	4326
PP2-4564-14M-450	3666445020071	326	4564
PP2-4578-14M-450	3666445020064	327	4578
PP2-4956-14M-450	3666445020057	354	4956
PP2-5152-14M-450	3666445020040	368	5152



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