



RTP Company Nomenclature

RTP Company uses a nomenclature system to identify and describe our specialty compounded thermoplastic products. This brief overview does not include of all aspects of our system.

RTP Company nomenclature syntax:

Prefix #1 #2 #3 #4 Suffix Color

Prefix

CCP	Custom Compounded Products
EMI	EMI/RFI Shielding Compounds
ESD	Electrostatic Dissipative Compounds
ESP	Extruded Sheet Product
FCX	Foam Concentrates
PermaStat®	Permanently Anti-static Compounds
RTP	Standard Product Designator
VLF	Very Long Fiber

#1 & #2 digits

Identifies the base polymer.

See the last page of this document for a complete list of RTP Series.

Resin systems are numbered sequentially 01 through 47, with 01 representing polypropylene, 02 nylon, 03 polycarbonate, etc.

The leading zero on Series 01 through 09 is often dropped for simplicity.

Resin systems that have an alphabetical character immediately following the fourth digit use an alternate base polymer (ie: 200A signifies nylon 6, 200B nylon 6/10, 200C nylon 11, etc.).

#3 digit

Identifies the primary additive/filler.

0	Glass Fiber
1	Glass Fiber
2	Talc
2	Glass Fiber/Glass Bead Blend
3	Talc or Mineral
3	Glass Fiber/Stainless Steel Blend
4	Calcium Carbonate or Mica
5	Flame Retardant
6	Stainless Steel Fiber
7	Glass Fiber/Mineral Blends
8	Carbon Fiber
9	Carbon Fiber

#4 digit

Identifies the loading level of the primary additive/filler.

For glass fiber (third digit of 0 or 1) and carbon fiber (third digit of 8 or 9) reinforced compounds the following percentage scale is used with regard to loading levels. (# x 5 + 5 = %)

0	Neat/Base	5	30%	10	55%
1	10%	6	35%	11	60%
2	15%	7	40%	12	65%
3	20%	8	45%	13	70%
4	25%	9	50%	14	75%

Decimals between 0.1 and 0.9 are used for loading levels of less than 10%.

Other primary additives/fillers identified by the third digit may use different scales to indicate their loading level.

Suffix

Used for grade designations or for identifying secondary additives/fillers.

AR	Aramid Fiber (%)
CC	Chemically Coupled
CF	Carbon Fiber (%) – <i>Only used when combined with glass fiber</i>
EM	Easy Mold
EG	Extrusion Grade
F	Foaming Agent
FR	Flame Retardant
FR A	Updated FR formulation
FR NH	Halogen-Free FR System
GB	Glass Bead (%)
HB	UL94 HB Flammability Rating
HEC	Highly Electrically Conductive (%) – <i>Nickel-coated carbon fiber</i>
HF	High Flow
HI	High Impact
HM	High Modulus
HS	Heat Stabilized
L	Lubricated
LE	Low Extractable
LF	Low Flow
LP	Low Plate-out
M	Mineral (%)
MF	Medium Flow
MG	Milled Glass (%)
MS	Molybdenum Disulfide (%)
NS	No Substitutes
SE	Self Extinguishing
SI	Silicone (%)
SP	Small Pellet
TFE	PTFE (%)
UV	Ultraviolet Stabilized
Z	FDA Compliant Ingredients

When any of the above suffixes marked with a "(%)" have a number following them, this number identifies the loading of this additive.

X Series products

RTP Company materials that follow the numbering convention #1 #2 99 X # # # # # are our custom and/or proprietary-formulated compounds. The five or six digits after the "99 X" denote an engineering notebook page number and do not identify additives/fillers or loading levels.

Color numbers

Natural	No pigments added
Black	Standard amount of black pigment or material is inherently black
Nat/Blk	Carbon fiber product (or other dark filler) with no pigment
Blk/Blk	More than the standard amount of black pigment or carbon fiber product with standard amount of black pigment
S-#####	Standard color
SL-#####	Laser-markable
SS-#####	Straight shot color
SSL-#####	Straight shot laser-markable
Z-#####	FDA compliant color
ZL-#####	FDA compliant laser-markable

The numeric digits of a color number are assigned in sequential order as a unique identifier and are not part of any scale to indicate color hue.

Series	Base Resin System	Abbreviation
100	Polypropylene	PP
200	Nylon 6/6	PA 6/6
200 A	Nylon 6	PA 6
200 B	Nylon 6/10	PA 6/10
200 C	Nylon 11	PA 11
200 D	Nylon 6/12	PA 6/12
200 E	Amorphous Nylon	PA
200 F	Nylon 12	PA 12
200 G	Nylon 4/6	PA 6/12
200 H	Impact-Modified Nylon 6/6	PA 6/6
200 K	Polyarylamide	PAA
300	Polycarbonate	PC
300 B	High Flow Polycarbonate	PC
400	Polystyrene	PS
500	Styrene Acrylonitrile	SAN
600	Acrylonitrile Butadiene Styrene	ABS
700	High Density Polyethylene	HDPE
700 A	Low Density Polyethylene	LDPE
800	Acetal	POM
900	Polysulfone	PSU
1000	Polybutylene Terephthalate	PBT
1100	Polyethylene Terephthalate	PET
1100 A	Polyethylene Terephthalate Glycol Modified	PETG
1200	Thermoplastic Polyurethane Elastomer	TPU
1200 M	Thermoplastic Polyurethane Elastomer	TPU
1200 S	Ester-based Thermoplastic Polyurethane Elastomer	TPU
1200 T	Ether-based Thermoplastic Polyurethane Elastomer	TPU
1300	Polyphenylene Sulfide	PPS
1400	Polyethersulfone	PES
1500	Polyether-Ester Block Copolymer Thermoplastic Elastomer	COPE
1600	<i>See RTP 1400 Series</i>	--
1700	Modified Polyphenylene Ether	PPE
1800	Acrylic	PMMA
1800 A	Polycarbonate/Acrylic Alloy	PC/PMMA
1900	Foam Concentrates	FCX
2000	Miscellaneous	--
2100	Polyetherimide	PEI
2200	Polyetheretherketone	PEEK
2200 A	Polyetherketone	PEK
2300	Rigid Thermoplastic Polyurethane	RTPU
2400	<i>See RTP 1700 Series</i>	--
2500	Polycarbonate/ABS Alloy	PC/ABS
2600	<i>Unassigned</i>	--
2700	Styrenic Block Copolymer	SBC
2700 S	Saturated Styrenic Block Copolymer Thermoplastic Elastomer	SEBS
2700 U	Unsaturated Styrenic Block Copolymer Thermoplastic Elastomer	SBS
2800	Value-Added Thermoplastic Polyolefin Elastomer	TEO
2800 B	Thermoplastic Vulcanizate Elastomer	
2800 D	Thermoplastic Polyolefin Elastomer	TEO
2900	Polyether-Block-Amide Thermoplastic Elastomer	COPA
3000	Polymethylpentene	PMP
3100	Perfluoroalkoxy	PFA
3200	Ethylene Tetrafluoroethylene	ETFE
3300	Polyvinylidene Fluoride	PVDF
3400	Liquid Crystal Polymer	LCP
3500	Fluorinated Ethylene Propylene	FEP
3600	<i>Discontinued</i>	--
3700	Cellulosics (Acetate, Butyrates, & Propionate)	CA, CAB, & CAP
3800	Polyaryletherketone	PAEK
3900	Polyetherketoneetherketoneketone	PEKEKK

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Series	Base Resin System	Abbreviation
4000	Polyphthalamide	PPA
4000 A	Hot Water Moldable Polyphthalamide	PPA
4100	Polyetherketoneketone	PEKK
4200	Thermoplastic Polyimide	TPI
4300	Polysulfone/Polycarbonate Alloy	PSU/PC
4400	High Temperature Nylon	HTN
4500	<i>Discontinued</i>	--
4600	Syndiotactic Polystyrene	SPS
4700	Polytrimethylene Terephthalate	PTT
4800	Polyvinyl Chloride	PVC
6000	Specialty Thermoplastic Elastomer	TPE