

Contents of CAMPUS^â

5 Abbreviated Terms

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This guide for fixing abbreviated descriptions mainly is relevant for licensees only and shall be the only source of searchable abbreviations used in CAMPUS.

5.1 General

ISO 1043-1 includes abbreviated terms, that have come into established use (like ABS), symbols for components of these terms (i.e. AN, B and S) and symbols for special characteristics (like -HI). The latter two types of symbols enable to compile additional descriptions of the one plastic, different from the abbreviated term (e.g. SAN-HI or S/AN+B/S/AN instead of ABS). The aim however of this guide (as of ISO 1043) is „to prevent the occurrence of more than one abbreviated term for a given plastics terms“. Only in this case the designation system described in ISO 1043 becomes suitable for searching purposes. The following principles, therefore, shall be used for CAMPUS.

All polymers shall be presented according to the following system:

(P1+P2+P3)-(F1+F2)X...

where:

P1: polymer 1

P2: polymer 2

P3: polymer 3

F1: filler 1

F2: filler 2

X: total weight percentage of fillers (= % F1 + % F2)

... : indicates more ingredients which are not specified

- The polymers P1,P2 and P3 shall be taken from the list of base polymers, separate document "Base Polymers".
- Copolymers are handled as base polymers, separate document <http://www.campusplastics.com/docs/basepoly.htm>.
- For mixtures and blends start with the polymer that forms the continuous phase.
- The fillers F1 and F2 shall be taken from the list of fillers, starting with the filler having the highest amount of addition, see table 17.

Each licensee can request to add more base polymers and fillers via M-Base

Examples:

ABS

ABS+PC

(ABS+PC)-GF20

PC-(GF+GB)10

PC-GF

(ABS+PC)-(GF+CF)30...

5.2 Base Polymers

For the table of allowed base polymers, see separate document
<http://www.campusplastics.com/docs/basepoly.htm>

5.3 Fillers

CF	carbon fiber
CD	carbon fines, powder
GF	glass fiber
GB	glass beads, spheres, balls
GD	glass fines, powder
GX	glass not specified
K	calcium carbonate
MF(x)	metal fibre
MD(x)	metal fines, powder
MF	mineral fibre
MX	mineral not specified
MD	mineral fines, powder
NF	natural organic fiber
P	mica
Q	silica
RF	aramid fiber
T	talcum
X	not specified
Z	others not included in this list

Table 14: Fillers

5.4 Flame Retardants

HALOGONATED COMPOUNDS	
10	aliphatic/alicyclic chlorinated compounds
11	aliphatic/alicyclic chlorinated compounds in combination with antimony compounds
12	aromatic chlorinated compounds
13	aromatic chlorinated compounds in combination with antimony compounds
14	aliphatic/alicyclic brominated compounds
15	aliphatic/alicyclic brominated compounds in combination with antimony compounds
16	aromatic brominated compounds (excluding brominated diphenyl ether and biphenyls)
17	aromatic brominated compounds (excluding brominated diphenyl ether and biphenyls) in combination with antimony compounds
18	polybrominated diphenyl ether
19	polybrominated diphenyl ether in combination with antimony compounds

20	polybrominated biphenyls
21	polybrominated biphenyls in combination with antimony compounds
22	aliphatic/alicyclic chlorinated and brominated compounds
25	aliphatic fluorinated compounds
NITROGEN COMPOUNDS	
30	nitrogen compounds (confined to melamine, melamine cyanurate, urea)
ORGANIC PHOSPHORUS COMPOUNDS	
40	Halogen-free organic phosphorus compounds
41	Chlorinated organic phosphorus compounds
42	Brominated organic phosphorus compounds
INORGANIC PHOSPHORUS COMPOUNDS	
50	ammonium orthophosphates
51	ammonium polyphosphates
52	red phosphorus
METAL OXIDES, METAL HYDROXIDES, METAL SALTS	
60	aluminum hydroxide
61	magnesium hydroxide
62	antimony (III) oxide
63	alkali-metal antimonate
64	magnesium/calcium carbonate hydrate
BORON AND ZINC COMPOUNDS	
70	inorganic boron compounds
71	organic boron compounds
72	zinc borate
73	organic zinc borate
SILICA COMPOUNDS	
75	inorganic silica compounds
76	organic silica compounds
OTHERS	
80	graphite