



TECHNICAL FILAMENTS

In Cepillos Sacema, as manufacturers of industrial brushes, we have an extensive range of technical filaments with which we manufacture our brushes, depending on what best suits each need.

Our standard range of technical filaments with their main properties is shown here.

Standard filaments

Properties	Units	PA6	PA 6.6	PA 6.10	PA 6.12	PBT	PP
Density	[g/cm ³]	1,12	1,14	1,08	1,08	1,31	0,9
Max. humidity absorption	[%]	10	8	3,5	3	0,5	0,01
Melting point	[°C]	215	255	215	212	225	165
Max. short-term working temperature	[°C]	140-180	170-200	140-180	140-180	165	130
Max. continuous working temperature	[°C]	80-100	80-120	80-100	80-100	80-100	70
Min. continuous working temperature	[°C]	-20	-25	-30	-30	-20	-15
Bio Base	[%]	0	0	63	0	0	0
Biodegradable		no	no	no	no	no	no
Bending recovery	*a	2	2	1	1	1	4
Bending stiffness	*a	3	3	2	2	3	3
Wear resistance	*a	2	2	1	1	2	4
Resistance to bending	*a	1	1	1	1	2	3
Alkaline solution resistance	*b	1	1	1	1	3	1
Acid solution resistance	*b	4	4	4	4	1	1

4
3
2
1

No resistance/low
 Low resistance/regular
 Good resistance/high
 Very good resistance/very high

Last updated: April 04, 2023

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High performance filaments

Properties	Units	Materials						
		PA 6 antistatic	PA 6 conductive	PA 6 flame retardant	PBT MD metal detectable	HT 150 Green Line	Pekalon II	PEEK
Density	[g/cm3]	1,12	1,12	1,12	1,51	1,09	1,35	1,3
Max. humidity absorption	[%]	10,00	10,00	10,00	0,50	5,80	0,02	0,40
Melting point	[°C]	215	215	215	225	250	285	340
Max. short-term	[°C]	140-180	140-180	140-180	165	200	235	290
Max. continuous	[°C]	80-100	80-100	80-100	80-100	150	180	250
Min. continuous	[°C]	-20	-20	-20	-20	-30	-40	-50
Bio Base	[%]	-	-	-	-	70	-	-
Biodegradable		-	-	-	-	-	-	-
Bending recovery	*a	2	3	3	2	1	2	2
Bending stiffness	*a	3	3	3	3	1	1	1
Wear resistance	*a	2	2	2	2	1	3	2
Resistance to bending	*a	2	2	2	3	1	3	3
Alkaline solution	*b	1	1	1	3	1	2	1
Acid solution resistance	*b	4	4	4	1	3	2	1

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