

Thread	abbrevia- tion	color	Fiber diameter in mm	Working tempera- ture Celsius	Material absorption when working in water	Resistance to work in chemicals		Characteristics
						pH<7	pH>7	
PLASTIC FIBERS								
Polyamide 6 (Silon/Nylon)	PA 6	White or transparent*	0,9–2,5	<-20, + 100>	9,50%	-	+	Fiber due to its high abrasion resistance and bending resistance (the fiber has memory) is particularly suitable for use in the manufacture of industrial brushes, because of its water absorption, we use a standard quality fiber of 6.6
		Black*						
Polyamide 6.6 (Silon/Nylon)	PA 6.6	White or transparent*	0,15–0,8	<-20,+ 120>	8,50%	-	+	Standardly we supply brushes made of this fiber - it is the best fiber for industrial brushes - it has excellent quality parameters at a reasonable price, excellent resistance to abrasion and long-term parameters for maximum working temperature.
		Black*						
Polyamide HT		Brown	0,4	<-20,+ 150>	-	-	+	The fiber is resistant to a temperature of 150 degrees with a similar quality of 6.6
Polyamide 6.12* (Silon/Nylon)	PA 6.12	White or transparent*	0,075–0,25	<-20,+ 100>	3,00%	-	+	Fiber has better resistance to water absorption but is more expensive than PA 6 or 6.6
		black*						
Polyamide 6 antistatic (Silon/Nylon)	PA	White or transparent	0,3; 0,5	<-20, + 100>	9,50%	-	+	See PA 6, Resistance 107-1012 Ohm / cm, according to DIN 54345
		Black						
Polyamide 6 electroconductive* (Silon/Nylon)	PA	White or transparent	0,3; 0,6	<-20, + 100>	9,50%	-	+	See PA 6, conductivity according to European Standards 107
		Black						
Polypropylene (Mypren)	PP	White or transparent*	0,15-0,7; 0,9; 1,2; 1,5, 2x3	<-20, + 90>	0,00%	+	-	It does not absorb water, it is not resistant to bending (no memory), approx. 2x less abrasion resistance
		Black*						
Silicone-free polyamide	PA	White	X profile Ø 0,55	<-20, + 120>	9,50%	-	+	Silicone-free polyamide suitable for applications prior to staining and varnishing
Polyamide self-extinguishing	PA FR	Black	0,5	<-20, + 120>	9,50%	-	+	Polyamide is self-extinguishing, so does not flame according to FMVSS 302 / ISO 3795 less than 100mm / min.
Polyvinyl chloride (PVC)	PVC	Red	0,25; 0,8; 1,0; 1,2	<-20, + 85>	0,00%	+	-	Cheap fiber. The fiber is self-extinguishing, but has poor parameters due to low abrasion resistance and very easily breaks.
Polyethylene (Mylex) car wash lines	Mylex	assorted colors	0,8; 1; 0,55	<-20, + 45>	0,00%	+	o	Fiber is particularly suitable for car, bus, and other washing lines
Polyester	PET	Red	0,9; 1,2; 1,5	<-20, + 134>	0,30%	+	-	Cheap fiber. The fiber is only used for brooms.
Pekalon	-	Natural	0,2; 0,4	<-20, + 200>	0,15%	+		Fiber is suitable for the environment where it is necessary to work at higher temperatures. The fiber has good resistance to abrasion and bending.



Kartáčovna Koloveč

MATERIALS FOR BRUSH PRODUCTION

FILLING MATERIAL

Thread	color	Fiber diameter in mm	Working temperature Celsius	Material absorption when working in water	Resistance to work in chemicals		Characteristics												
					pH<7	pH>7													
PLASTIC FIBERS - ABRASIVE																			
Abralon -SIC	Grey	0,25–1,6	<-20,+ 85>	3,00%	-	+	The same characteristics as PA 6.12, the fiber has excellent abrasive properties - 25% SIC grains												
Abralon - DM	Transparent	1,8; 2,0	<-20,+ 85>	3,00%	-	+	The same characteristics as PA 6.12, the fiber has excellent abrasive properties - 10-20% DM grain												
ANIMAL FIBERS																			
Pig bristle	Natural White	-	<-20,+ 150>	35,00%	o	o	The fiber is slightly electrostatic and has a relatively high working temperature. For this reason, it is used, for example, for wood brushing or in plants where emphasis is placed on thermal resistance.												
	Natural Black																		
Goat hair	Natural White							-	<-20,+ 150>	35,00%	o	o	The fiber is slightly electrostatic and has a relatively high working temperature. The fiber is very fine and therefore suitable for cosmetic purposes and fine cleaning.						
	Natural Black																		
Horsehair	Natural White													-	<-20,+ 150>	35,00%	o	o	The fiber is slightly electrostatic and has a relatively high working temperature. For this reason, it is used, for example, for wood brushing or in operations where the emphasis is placed on thermal resistance. Compared to the bristle, the fiber is
	Natural Black																		
PLANT FIBERS																			
Coconut fiber	Natural Grey	-	<-20,+ 160>	35,00%	o	o	Special applications especially for brushes and brooms in operations where there are high demands on heat resistance												
Basina	Natural Brown		<-20,+ 85>																
Tampico fibr	Natural Yellow		<-20,+ 160>																
Cotton	Natural White		<-20,+ 85>																
Arenga	Natural Brown		<-20,+ 85>					The material is suitable for the production of brushes and brooms from natural material. The fiber is worse processed.											
			<-20,+ 85>																
MIXTURES																			
Mixture for brooms - 50% horsehair 50% polyamide	Natural Black	0,3	<-20,+ 100>	8,5%-35%	-	+	For special applications only												
Mixture for beekeepers- 50% horsehair black 50% polyamide black	Natural Black																		
Mixture for beekeepers- 50% horsehair white 50% polyamide black	Natural White																		
FITTING WIRE																			
Brass wire	Brass metallic	0,1-0,35	<-20,+ 300>	0,00%	o	o	Brass fibers are harder than plastic fibers, but they are brittle, they break easily and reduce the life of the brush. They have good chemical resistance. Frequent applications are in the treatment of metal and wood surfaces.												
Bronze wire	Bronze metallic	0,08-0,25																	
Steel wire	Silver metallic	0,08-0,4																	
Flat wire	Steel metallic	0,6×3,3 či 0,45×1,8	<-20,+ 80>				Only for special application brushes used for communal technology												