PA polyamide tubing

PA 12 S40-PHL

Multipurpose polyamide pneumatic tubing

Material: PA 12 polyamide (nylon 12)
Hardness: 65 Shore (D)
Working temperature: from -40°C to +100°C (intermittently up to +110°C; for water-based liquids up to +70°C)
Available colours:

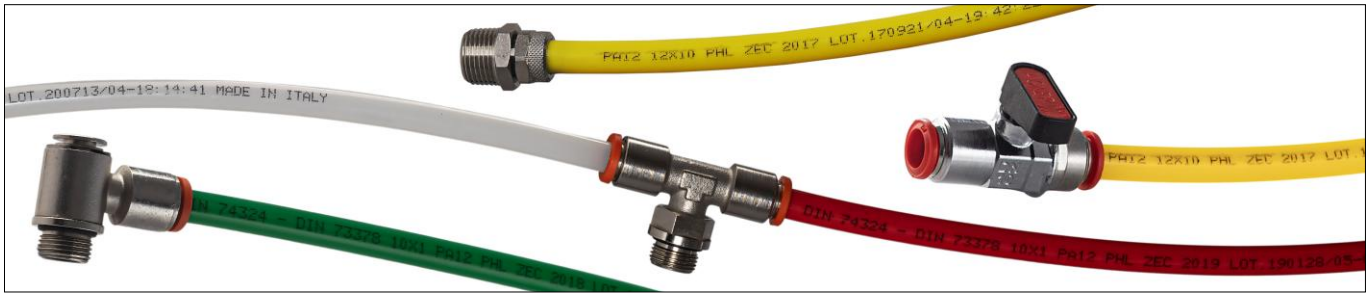
Light and flexible, high quality PA 12-PHL polyamide pneumatic tubing. Resistant to water and oily air. Widely used in industrial pneumatic installations; it can be used for pneumatic brake systems of road vehicles, for hydraulic, oil, fuel and lubrication systems, and for paints and solvents. The calibrated outside diameter allows connection using push-in fittings; compression ring and push-on fittings can also be used. The tubing comes in various colour versions. Black is recommended outdoors due to its high UV resistance. Other sizes and colours may be available on special order.
Standards and requirements: *DIN 73378 Polyamide tubing for use in motor vehicles; DIN 74324 Polyamide tubing for air braking systems;*
concerning polyamide tubing used in road vehicles and in the braking systems of these vehicles.

PA 12 S40-PHL: working pressure and burst pressure as a function of temperature	temperature	20ºC	30ºC	40ºC	50ºC	60ºC	70ºC	80ºC	90ºC	100ºC
	pressure	100%	87%	74%	64%	57%	52%	47%	43%	40%

D – outside diameter	**d** – inside diameter	**g** – wall thickness	**WP** – working pressure 20°C	**BP** – burst pressure 20°C	**R** – bending radius	**m** – unit weight	**L** – roll length

index (natural colour)	index (blue colour)	index (black colour)	other colours*	DIN standard	D [mm]	d [mm]	g [mm]	WP [bar]	BP [bar]	R [mm]	m [kg/m]	L [m]
ZC-PA12-S40PHL-03X015	ZC-PA12-S40PHL-03X015BL	ZC-PA12-S40PHL-03X015BK	G / R / Y	-	3	1,5	0,75	44	132	8	0,0055	100
ZC-PA12-S40PHL-04X02	ZC-PA12-S40PHL-04X02BL	ZC-PA12-S40PHL-04X02BK	G / R / Y	74324 / 73378	4	2	1	44	132	16	0,0097	100
ZC-PA12-S40PHL-04X03	ZC-PA12-S40PHL-04X03BL	ZC-PA12-S40PHL-04X03BK	G / R / Y	-	4	3	0,5	19	57	28	0,0057	100
ZC-PA12-S40PHL-05X03	ZC-PA12-S40PHL-05X03BL	ZC-PA12-S40PHL-05X03BK	G / R / Y	73378	5	3	1	33	99	20	0,0129	100
ZC-PA12-S40PHL-06X04	ZC-PA12-S40PHL-06X04BL	ZC-PA12-S40PHL-06X04BK	G / R / Y	74324 / 73378	6	4	1	28	84	30	0,0162	100
ZC-PA12-S40PHL-08X06	ZC-PA12-S40PHL-08X06BL	ZC-PA12-S40PHL-08X06BK	G / R / Y	74324 / 73378	8	6	1	20	60	40	0,0226	100
ZC-PA12-S40PHL-10X06	ZC-PA12-S40PHL-10X06BL	ZC-PA12-S40PHL-10X06BK	G / R / Y	73378	10	6	2	33	99	55	0,0517	50
ZC-PA12-S40PHL-10X07	ZC-PA12-S40PHL-10X07BL	ZC-PA12-S40PHL-10X07BK	G / R / Y	-	10	7	1,5	23	69	58	0,0412	50
ZC-PA12-S40PHL-10X08	ZC-PA12-S40PHL-10X08BL	ZC-PA12-S40PHL-10X08BK	G / R / Y	74324 / 73378	10	8	1	16	48	60	0,0291	50
ZC-PA12-S40PHL-12X08	ZC-PA12-S40PHL-12X08BL	ZC-PA12-S40PHL-12X08BK	G / R / Y	73378	12	8	2	28	84	60	0,0647	50
ZC-PA12-S40PHL-12X09	ZC-PA12-S40PHL-12X09BL	ZC-PA12-S40PHL-12X09BK	G / R / Y	74324 / 73378	12	9	1,5	20	60	60	0,0509	50
ZC-PA12-S40PHL-12X10	ZC-PA12-S40PHL-12X10BL	ZC-PA12-S40PHL-12X10BK	G / R / Y	-	12	10	1	12	36	85	0,0356	50
ZC-PA12-S40PHL-14X10	ZC-PA12-S40PHL-14X10BL	ZC-PA12-S40PHL-14X10BK	G / R / Y	74324 / 73378	14	10	2	23	69	75	0,0776	50
ZC-PA12-S40PHL-14X11	ZC-PA12-S40PHL-14X11BL	ZC-PA12-S40PHL-14X11BK	-	-	14	11	1,5	16	48	85	0,0606	50
ZC-PA12-S40PHL-15X12	ZC-PA12-S40PHL-15X12BL	ZC-PA12-S40PHL-15X12BK	-	74324 / 73378	15	12	1,5	16	48	90	0,0655	50
ZC-PA12-S40PHL-16X12	-	-	-	74324 / 73378	16	12	2	20	60	95	0,0906	50
ZC-PA12-S40PHL-16X13	ZC-PA12-S40PHL-16X13BL	ZC-PA12-S40PHL-16X13BK	-	-	16	13	1,5	13	39	110	0,0703	50
ZC-PA12-S40PHL-18X14	-	-	-	74324 / 73378	18	14	2	17	51	100	0,1035	50
ZC-PA12-S40PHL-20X16	-	-	-	73378	20	16	2	16	48	200	0,1164	50
ZC-PA12-S40PHL-22X18	-	-	-	-	22	18	2	13	39	200	0,1294	50

* G – green; R – red; Y – yellow.



PA 12 S40-PHL pneumatic tubing with push-in fittings. The tubing is connected by pushing it into the fitting; to disconnect, press the coloured release ring (sleeve) against the fitting. At the top, tubing with a push-on fitting. Compression ring fittings can also be used.