PU polyurethane tubing

FLAMEX

Flame retardant, spark resistant pneumatic tubing with a calibrated outside diameter

Material: PUR polyurethane (polyether)
Hardness: 58 Shore (D)
Working temperature: from -35°C to +100°C
Available colours:

Top quality pneumatic tubing, resistant to sparks and hot swarf, for heavy duty work near welding robots, welders, grinders and other equipment generating sparks or spatters of hot material. Flame retardant (UL 94 V2 to V0), halogen-free, self-extinguishing. Abrasion resistant, suitable for cable carriers. Widely used in the German automotive industry. Contains no substances harmful to car paintwork. Resistant to water, hydrolysis, microbes, biological corrosion, UV radiation, solvents and detergents. The calibrated outside diameter allows connection to the system using push-in fittings.

FLAMEX: working pressure and burst pressure as a function of temperature*	temperature	20ºC	30ºC	40ºC	50ºC	60ºC	70ºC	80ºC	90ºC	100ºC
	pressure	100%	85%	77%	69%	63%	59%	56%	49%	43%

* approximate values (averages of values for various diameters)

index	outside diameter [mm]	inside diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	burst pressure 20°C [bar]	vacuum 20°C* [bar]	bending radius [mm]	unit weight [kg/m]	roll length [m]
PP-FLAMEX-04X02	4	2	1	20	60	0,9	7	0,0112	50
PP-FLAMEX-08X04	8	4	2	17	50	0,9	15	0,0471	50
PP-FLAMEX-10X06	10	6	2	12	36	0,9	20	0,0630	50
PP-FLAMEX-12X08	12	8	2	12	36	0,9	28	0,0792	50
PP-FLAMEX-14X10	14	10	2	13	38	0,9	45	0,0958	50
PP-FLAMEX-16x11	16	11	2,5	12	37	0,9	55	0,1347	50

Notes: * - for vacuum applications, increase the minimum bending radius by approximately 20%.

FLAMEX pneumatic tubing with HP nickel-plated brass push-in fittings.