

POLYFLEX NP



FEATURES

POLYFLEX NP is a standard convoluted tubing designed for wire harness protection. It is suited for harsh environments to protect against any mechanical risks such as abrasion or compression. This tube can be delivered slit or non-slit. Assembly tools are available for an easier installation. POLYFLEX NP is compatible with POLYFLEX Accessories for any routing or fixation need.

CHARACTERISTICS

- **Product family:** Standard Convoluted Tubing
- **Construction:** slit or non-slit
- **Materials:** polypropylene, polyamide
- **Standard colors:** black, gray, orange (depending on material grade)
- **Temperature of use:** up to -40/150°C
- **Typical applications:**
 - Switch cabinets
 - Electrical industry
 - Ship & train building...



PA6 Std & PA6 BS
(black, non-slit)



PA6 BS (black)



UR File E81472 (acc. to UL1696) (PA6 BS, black)



EN 45 545-2 (PA6 BS, black)



PPMOD, PA6 BS, PA6 Std
(black, orange, red)

NFPA-130 compliant (PA6 BS, black)

PHYSICAL PROPERTIES

Physical properties	Spec	LD-PE_BS (LD-PE)	PP Std (PP)	PA6 Std (PA6)	PA6 BS (PA6)	PP BS (PP)	PPMod (PP)	PAER (PA6)
Thermal properties								
Long term aging (3000h)	-	80°C	105°C	120°C	120°C	125°C	135°C	150°C
Short term aging	-	240h / 90°C	350h / 135°C	240h / 150°C	240h / 150°C	240h / 150°C	240h / 160°C	240h / 175°C
Other properties								
Density (g/cm ³)	ISO 1183	0.94	0.91	1.13	1.2	0.91	0.91	1.13
Flammability (mm/min)	FMVSS 302	self-ext.	< 100	< 100	V0 (UL94)	V2 (UL94)	self-ext.	self-ext.
Fire behavior	EN 45 545-2	-	-	-	R22 HL3 ; R23 HL3	-	-	-
Surface flammability	ASTM E 162	-	-	-	pass	-	-	-
Toxic gas generation	Bombardier SMP 800-C BSS 7239 BSS 7242	-	-	-	pass	-	-	-
Rate of smoke generation	ASTM E 662 ASTM E 1354	-	-	-	pass	-	-	-
Chemical resistance	Resists the majority of chemicals and automotive fluids							

DIMENSIONS

Designation	ID ØA (mm)*	OD ØB (mm)*
POLYFLEX NP 03	2.8	5.1
POLYFLEX NP 04.5	5.0	7.1
POLYFLEX NP 06	6.0	9.2
POLYFLEX NP 07.5	6.9	9.9
POLYFLEX NP 08.5	8.5	11.6
POLYFLEX NP 10	10.1	12.7
POLYFLEX NP 12	12.0	15.6
POLYFLEX NP 13	12.9	15.8
POLYFLEX NP 14	14.5	18.3
POLYFLEX NP 16	15.2	18.8

Designation	ID ØA (mm)*	OD ØB (mm)*
POLYFLEX NP 17	16.8	21.0
POLYFLEX NP 19	19.4	24.0
POLYFLEX NP 22	21.8	25.5
POLYFLEX NP 23	23.7	28.0
POLYFLEX NP 26	26.4	31.3
POLYFLEX NP 29	29.3	33.9
POLYFLEX NP 37	36.7	42.0
POLYFLEX NP 50	47.8	53.6

* Dimensions may vary depending on the material grade.
Please refer to your SCHLEMMER Sales Representative for further information.

PACKAGING

- Rolls, Cut lengths upon request

