

PRODUCT-PVC NS
 Polyvinylchloride plastic tubing
 Mil-I-631D

UL-224 105C VW-1
 AMS 3631 CSA

DESCRIPTION

PVC NS is a Polyvinylchloride all purpose extruded plastic insulating material. Commonly used for internal wiring of electronic and electrical devices, for insulating bare wiring and wire bundling. PVC NS is resistant to oil, chemicals, solvents, fungi, and is self extinguishing. Also has an exceptional resistance to abrasion. This material has a long shelf life and is easily cut and marked.

AWG No.	Nominal ID		Nominal Wall		standard spool	AWG No.	Nominal ID		Nominal Wall		standard spool
	(IN)	(mm)	(IN)	(mm)			(IN)	(mm)	(IN)	(mm)	
24	.022	0.56	.012	0.30	1000	2	.263	6.68	.020	0.51	1000
22	.027	0.69	.012	0.30	1000	1	.294	7.47	.020	0.51	1000
20	.034	0.86	.016	0.41	1000	5/16"	.313	7.95	.025	0.64	500
19	.038	0.97	.016	0.41	1000	0	.330	8.38	.025	0.64	500
18	.042	1.07	.016	0.41	1000	3/8"	.375	9.53	.025	0.64	500
17	.047	1.19	.016	0.41	1000	7/16"	.438	11.12	.025	0.64	500
16	.053	1.35	.016	0.41	1000	1/2"	.500	12.70	.025	0.64	500
15	.059	1.50	.016	0.41	1000	9/16"	.563	14.29	.030	0.76	250
14	.066	1.68	.016	0.41	1000	5/8"	.625	15.88	.030	0.76	250
13	.076	1.93	.016	0.41	1000	3/4"	.750	19.05	.035	0.89	250
12	.085	2.16	.016	0.41	1000	7/8"	.875	22.33	.035	0.89	100
11	.095	2.41	.016	0.41	1000	1"	1.000	25.40	.035	0.89	100
10	.106	2.69	.016	0.41	1000	1-1/8"	1.125	28.58	.035	0.89	100
9	.118	3.00	.020	0.51	1000	1-1/4"	1.250	31.75	.040	1.02	100
8	.133	3.38	.020	0.51	1000	1-3/8"	1.375	34.93	.045	1.14	50
7	.148	3.76	.020	0.51	1000	1-1/2"	1.500	38.10	.045	1.14	50
6	.166	4.21	.020	0.51	1000	1-3/4"	1.750	44.45	.055	1.40	50
5(3/16")	.186	4.72	.020	0.51	1000	2"	2.000	50.80	.060	1.52	50
4	.208	5.28	.020	0.51	1000	2-1/4"	2.250	57.15	.065	1.65	50
3	.234	5.94	.020	0.51	1000	2-1/2"	2.500	63.50	.070	1.78	50
1/4"	.250	6.35	.020	0.51	1000						

Property	Test Method	Typical Value	Property	Test Method	Typ Value
Specific Gravity	ASTM D 792	1.32	Flammability	UL Subject 224 VW-1	Pass
Durometer Shore A	ASTM D 2240	91	Deformation 1 hr@ 121C	UL Subject 224	22%
Tensile Strength X 10(12)	ASTM D 876	2800 psi	Volume Resistivity	ASTM D 257	5.4
Elongation	ASTM D 876	288%	Dielectric Constant @1Khz	ASTM D 150	6.0
Brittleness Temperature	ASTM D 746	-20C	Dissipation Factor@1 Khz	ASTM D 150	0.09
Heat Aging 7 days @131C	UL Subject 224	81%	Dielectric Strength		
Oil Aging			0.021" specimen	ASTM D 149	750
vpm			Insulating Varnish Test		
4Hrs @70C SAE 20	CSA 22.2 No. 198	85%	20 hrs @150C in Isonel 31	CSA 22.2 No. 198	Pass

Specifications:UL Subject 224 VW-1. CSA OFT. Size #24 - Size #1 rated for 300V. Sizes 5/16" - 2-1/2" rated for 600V. ASTM D 922. AMS 3631. Mil-I-631D Grade C QPL approved.

Standard Colors: Black, Clear, White; Yellow and Red also available

Operating Temperature Range: -20C to 105C

*Above values are typical performance data and should not be used as design data.