

Rigid PVC Nonmetallic Conduit and Utility Duct

Thermal Properties:

Thermal Conductivity	1.3 BTU in/hr-ft ² -°F
Heat Distortion °F @ 264 psi	158°F
Coefficient of Linear Thermal Expansion (Also see expansion chart below)	0.000034 inch/inch/°F

Electrical Properties:

Dielectric Strength	1,100 volts/mil
Dielectric Constant	4.0 (60 CPS @ 30°C)
Power Factor	1.93 (60 CPS @ 30°C)
Impedance	0.010 volts/amp/100 ft (3 phase power, 90% P.F.)

Mechanical Properties:

Izod Impact ft-lbs/in of notch	0.65 - 1.5
Tensile Strength @ 73.4°F	5,000 to 7,000 lbs/in ²
Specific Gravity	1.4 to 1.7

Environmental Resistance Properties:

Electrolytic Corrosion	PW Pipe PVC products are immune to electrolytic and galvanic corrosion.
Biological Attack	PW Pipe PVC products do not support the growth of microorganisms or macroorganisms.
Sunlight Resistance	PW Pipe's PVC formulations contain UV inhibiting ingredients. PW Pipe conduit conforms to UL 651 sunlight resistance standards.
Chemical Resistance	PW Pipe PVC products provide excellent resistance to a number of chemicals. See the applicability chart on the back of this sheet for more detailed information.

Thermal Expansion/Contraction Chart
for PW Pipe PVC Conduit and Duct

Temperature Change in Degrees F	Length Change in Inches per 100 Feet of PVC Conduit	Temperature Change in Degrees F	Length Change in Inches per 100 Feet of PVC Conduit	Temperature Change in Degrees F	Length Change in Inches per 100 Feet of PVC Conduit	Temperature Change in Degrees F	Length Change in Inches per 100 Feet of PVC Conduit
5	0.2	55	2.2	105	4.2	155	6.3
10	0.4	60	2.4	110	4.5	160	6.5
15	0.6	65	2.6	115	4.7	165	6.7
20	0.8	70	2.8	120	4.9	170	6.9
25	1.0	75	3.0	125	5.1	175	7.1
30	1.2	80	3.2	130	5.3	180	7.3
35	1.4	85	3.4	135	5.5	185	7.5
40	1.6	90	3.6	140	5.7	190	7.7
45	1.8	95	3.8	145	5.9	195	7.9
50	2.0	100	4.1	150	6.1	200	8.1