

QUEEN CITY PLASTICS, INC.

PHYSICAL PROPERTIES OF QUEEN CITY PLASTICS PVC

PHYSICAL PROPERTY	TEST METHOD	TEST VALUE
Coefficient of Thermal Expansion (in/in°F)	ASTM D-696	2.85 x 10.5
Color		Gray
Comprehensive Strength (psi)	ASTM D-695	9,000
Dielectric Constant (60 cycles)	ASTM D-150	4.0
Dielectric Strength	ASTM D-149	1100 volts per mil
Flammability	ASTM D-635	Self-Extinguishing
Flexural Strength (psi)	ASTM D-790	14,500
Hardness (Durometer)	ASTM D-2230-85	98
Izod Impact at 73° (ft. lb./in. of notch)	ASTM D-256	1.60
Modulus of Elasticity (psi)	ASTM D-638	500,000
Tensile Strength (psi)	ASTM D-638	7,200
Thermal Conductivity BTU/ft.2°F/in.		1.3
Special gravity	ASTM D-792	1.40
Power Factor 60 CPS @ 30°	ASTM D-150	1.93
*Water Absorption % in 24 hrs. @ 72°F	ASTM D-570	.03

QUEEN CITY PLASTICS, INC. manufactures and tests in accordance with the following specifications:

Rural Electrification Administration	ASTM F-512
Underwriters Laboratories UL651, 651-A, 1653	NEMA TC-8 NEMA TC-10 NEMA TC-12
Federal Specification WC-1094A	NEMA TC-9 NEMA TC-11 NEMA TC-13
National Electrical Code, Article 331	8546
NEMA TC-2	Military Spec MIL-C-23571A (YD)
NEMA TC-3	Southeastern Electric Exchange
NEMA TC-6	SEE-B01A01 1080P (R)

THERMAL CONTRACTION & EXPANSION

Following is a chart showing the typical contraction/expansion per 100' of PVC as the temperature changes. PVC Expansion Joints are recommended for long duct runs and/or constantly changing temperatures at the jobsite.

NOTE: Expansion or contraction not a function of pipe diameter.

Change in length in inches per 20ft. of pipe

