Type 1 PVC

Typical Properties*			
Property	**Test Method**	**Units**	**Values**
PHYSICAL			
Density	ASTM D 792	g/cm³	1.42
Water absorption	ASTM D 570	%	0.06
Rockwell Hardness	ASTM D 785	R Scale	115
Shore durometer	ASTM D 224	D	89
Cell class	ASTM D 1748	-	12454-B
MECHANICAL			
Tensile modulus	ASTM D 638	psi	411,000
Yield strength	ASTM D 790	psi	7,500
Flexural modulus	ASTM D 790	psi	481,000
Yield strength	ASTM D 790	psi	12,800
Izod impact strength	ASTM D 256	ft-lb/in	1.0
THERMAL			
Vicat softening point	ASTM D 1525	°F (°C)	181 (83)
Heat deflection temperature (66 psi)	ASTM D 648	°F (°C)	179 (82)
Heat deflection temperature (264 psi)	ASTM D 648	°F (°C)	176 (80)
Coefficient of linear thermal expansion	ASTM D 696	in/in/°C	5.8×10^{-5}
Coefficient of linear thermal expansion	ASTM D 696	in/in/°F	3.2×10^{-5}
FLAMMABILITY RATINGS			
Flame spread index	ASTM E 84	-	20
Flammability	UL 94V	-	0
Flammability	ASTM D 635	-	Self-extinguishing
CHEMICAL			
Chemical resistance	ASTM D 1784	-	Class B
ELECTRICAL			
Electrical volume resistivity	ASTM D 257	Ohm/cm	5.4×10^{15}
Dielectric constant	ASTM D 150	60 Hz	3.9
Dissipation factor	ASTM D 150	60 Hz	0.0096
Loss index	ASTM D 150	60 Hz	0.030
Dielectric strength	ASTM D 149	Volts/mil	544

*Typical properties are not intended for specification purposes.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.