



ROYAL GLOBAL ENERGY

RGE's core business Oil, Gas, Refining and Petrochemicals

Product Name: Polyvinyl Chloride		
Property	Result	Test Method
Density (lb/in ³) (g/cm ³)	0.051	D792
	1.41	
Water Absorption, 24 hrs (%)	0	D570
Tensile Strength (psi)	7,500	D638
Tensile Modulus (psi)	411,000	D638
Tensile Elongation at Break (%)	-	D638
Flexural Strength (psi)	12,800	D790
Flexural Modulus (psi)	481,000	D790
Hardness	115 (Rockwell R)	D785
IZOD Notched Impact (ft-lb/in)	1	D256
Coefficient of Linear Thermal Expansion	6.1	D696
(x 10 ⁻⁵ in./in./°F)		
Heat Deflection Temp (°F / °C) at 264 psi	176 / 80	D648
Melting Temp (°F / °C)	n. a.	D3418
Max Operating Temp (°F / °C)	140 / 60	-
Thermal Conductivity	0.9	C177
(BTU-in/ft ² -hr-°F)	3.1	
(x 10 ⁻⁴ cal/cm-sec-°C)		
Flammability Rating	V-0	UL94
Dielectric Strength (V/mil) short time, 1/8" thick	544	D149
Dielectric Constant at 60 Hz	3.2	D150
Dissipation Factor at 60 Hz	0.0096	D150
Volume Resistivity (ohm-cm) at 50% RH	5.4 x 10 ¹⁵	D257