



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

PVC and CPVC

Item:	PVC (Polyvinyl chloride) & CPVC (Chlorinated polyvinyl chloride)	
Description:	PVC is a thermoplastic made of 57% chlorine (derived from industrial grade salt) and 43% carbon (derived predominantly from oil / gas via ethylene). This chlorine gives to PVC excellent fire resistance.	
Availability:	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers.

Length, width, thickness, and diameter sizes are available in a wide variety, with the proper product specified for your particular application. Product colors will vary according to material type.

Typical Properties	Test Method	PVC	CPVC
Density (lb/in³) (g/cm³)	ASTM D792	0.051 1.41	0.055 1.52
Water Absorption, 24 hrs (%)	ASTM D570	0	0.04
Tensile Strength (psi)	ASTM D638	7,500	8,200
Tensile Modulus (psi)	ASTM D638	411,000	430,000
Tensile Elongation at Break (%)	ASTM D638	--	27
Flexural Strength (psi)	ASTM D790	12,800	15,000
Flexural Modulus (psi)	ASTM D790	481,000	410,000
Hardness	ASTM D785	115 (Rockwell R)	121 (Rockwell R)
IZOD Notched Impact (ft-lb/in)	ASTM D256	1	1.6
Coefficient of Linear Thermal Expansion (x 10⁻⁵ in./in./°F)	ASTM D696	6.1	3.7
Heat Deflection Temp @ 264 psi (°F / °C)	ASTM D648	176 / 80	217 / 103
Melting Temp (°F / °C)	ASTM D3418	n.a.	n.a.
Max Operating Temp (°F / °C)	--	140 / 60	200 / 93
Thermal Conductivity (BTU-in/ft²-hr-°F) (x 10⁻⁴ cal/cm-sec-°C)	C177	0.9 3.1	0.95 3.3
Flammability Rating	UL 94	V-O	V-O
Dielectric Strength (V/mil) short time, 1/8" thick	ASTM D149	544	1250
Dielectric Constant at 60 Hz	ASTM D150	3.2	3.7
Dissipation Factor at 60 Hz	ASTM D150	0.0096	--
Volume Resistivity (ohm-cm) at 50% RH	ASTM D257	5.4 x 10 ¹⁵	3.4 x 10 ¹⁵

AS9100C Certified | ISO/AS9100 Certified QMS | RoHS Compliant | ITAR Compliant

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