



PVC

Also Known As (common industry trade names):

Corzan . Corzan CPVC . Corzan Z-10 . Cpvc Vintek . Celtec . Excelon . Flex-Vinyl
Komacel . Komadur . Komatex . Gehr-Glo . Harvel . Lustrofilm . Lustroform . Sintra
RaufilamPVC . Rigid Vinyl . Tygon . Ultra White . Versadur . Vintec I . Vimtec II . Vinyl

Description:

PVC is the most economical solution when chemical resistance along with full range of physical properties is needed. PVC is easily machined, thermoformed, welded, and solvent cemented. PVC is weather resistant, maintains a high impact strength and has good electrical properties. PVC is available either flexible or rigid. CPVC is a higher temperature material that can see service temperatures to 190 degrees F. Polyvinyl chloride (PVC) or "vinyl" is usually an amorphous thermoplastic material with excellent chemical resistance and dielectric properties, good tensile, flexural and mechanical strength, low moisture absorption, exceptional dimensional stability and good flammability characteristics. The maximum service temperature for PVC is 140 F. The physical properties of PVC can be readily altered by addition of plasticizers, impact modifiers and other ingredients to develop and enhance specific properties.

Generally there are two basic types of PVC available - rigid PVC and plasticized, flexible, PVC or vinyl. Additional subcategories of rigid and flexible PVC with desirable physical properties targeted to a specific application can be developed by altering additives to the base resin (i.e., the addition of UV stabilizers to enhance weatherability of rigid vinyl siding used in outdoor applications, etc.). PVC is available in a wide spectrum of colors, as well as transparent variations.

Applications:

Bolts . Ducts
Tanks . Hoods
Strainers
Irrigation
Filters . Fittings
Signs . Nuts
Door Strip

Shapes / Stocks / Acc.

Flexible Tubing . Square Tubing
U-channel . Flat Bar . PVC Cement
Rigid Tubing . Sheet . Perforated Sheet
Pipe . Liners . Fittings
Rectangular Tubing . Extruded Angle
Rod . Round Bar . Hex Bar . Nipples
Wire Reinforced Sheet

Standard Shapes and Sizes (please call for custom sizes not listed):

Sheet: 48"x 96" - 1/6" thru 4" thick (Type I), 48" x 120", 60" x 96", 60" x 120" also available

Rod: 1/4" thru 12" (gray)

Tube: Clear flexible tubing readily available in many sizes

Film: Readily available, sheets and rolls, rigid and flexible

Dallas, Texas (Corporate Offices)
Houston, Texas
Brandon, Mississippi

phone 800-782-1836 / 214-239-3870
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QUADRANT

CORZAN® CPVC

Economical Materials for Lower Temperature, Wet Applications Requiring Good Chemical Resistance

Product Profile:

- Performs in applications to 200°F (92°C)
- Good impact resistance
- ASTM D-1784: Meets cell classification 24436
- Reduces noise
- Self-lubricating
- No moisture absorption
- Chemical-and corrosion-resistant
- UL94 V-0 Flammability Rating



A qualified Corzan® Industrial System Processor, Quadrant offers products ideally suited to corrosive or high temperature environments in industries such as surface finishing and chemical processing.

Corzan® CPVC resists many acids, alkalis and solvents and has a UL94 V-O flammability rating.

Corzan® CPVC is gray in color and available in 48" x 96" sheets with gauge sizes ranging from 1/4" to 2".

Industries	Applications
Chemical processing, handling and storage Metals finishing	Hoods and ducting Instrument housings Plenums and manifolds Pump components Scrubbers Structural components Tanks Valve bodies

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DATA SHEET			
CORZAN® CPVC – ASTM D1748, Cell Classification 24436			
Property	Units	Test Method	Typical Average Values
Mechanical			
Specific Gravity, 73° F	-	ASTM D792	1.56
Yield Point, 73° F	psi	ASTM D638	6150
Elongation (at yield), 73° F	%	ASTM D638	3
Tensile Break, 73° F	psi	ASTM D638	6700
Elongation (at break)	%	ASTM D-638	12
Flexural Modulus of Elasticity 73° F	psi	ASTM D790	388000
Tensile Modulus of Elasticity, 73° F	psi	ASTM D638	260000
Hardness, Durometer, Shore "D" Scale, 73° F	-	ASTM D2240	84
Izod Impact (notched), 73° F	ft.lb./in.	ASTM D256 Type "A"	3.2
Thermal			
Heat Deflection Temperature 66 psi	°F	ASTM D648	
Melting Point (crystalline) peak	°F	ASTM D3418	
Continuous Service Temperature in Air (Max.)(1)	°F	-	200
Electrical			
Surface Resistivity	Ohm	ASTM D257	> 10 ¹²
Volume Resistivity	Ohms/cm	ASTM D257	> 10 ¹²
Flammability @ 3.1mm (1/8") (3)	-	UL 94	VO
Miscellaneous			
Water Absorption	ASTM D-570	%	

- (1) Data represent Quadrant's estimated maximum long-term service temperature based on practical field experience.
- (2) Specimens: 1/8" thick x 2" diameter or square.
- (3) **Estimated rating based on available data.** The UL 94 Test is a laboratory test and does not relate to actual fire hazard. Contact Quadrant for specific UL "Yellow Card" recognition number.

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