



DEACON INDUSTRIAL SUPPLY COMPANY, INC.

CPVC physical properties and ASTM standards for fittings.

CPVC Schedule 80 fittings

PHYSICAL PROPERTIES

| PHYSICAL PROPERTY | TEST CONDITION | VALUE | REFERENCE |
|--|----------------|---------|-------------|
| Specific Gravity | 73°F | 1.52 | ASTM D-792 |
| Rockwell Hardness(R) | 73°F | 121 | ASTM D-785 |
| Heat Deflection @ 264 psi | °F | 212 | ASTM D-645 |
| Tensile Strength | 73°F | 8200 | ASTM D-638 |
| Tensile Modulus (psi) | 73°F | 430,000 | ASTM D-638 |
| Flexural Strength (psi) | 73°F | 15,000 | ASTM D-790 |
| Flexural Modulus (psi) | 73°F | 410,000 | ASTM D-790 |
| Izod Impact Ft. Lbs./In. Notch | 73°F | 1.6 | ASTM D-256 |
| Water Absorption (24 hrs.) | 73°F | + .04 | ASTM D-570 |
| Coefficient of Expansion (°F), in./in./x 10 ⁶ | | 3.7 | ASTM D-696 |
| Flammability | .062" | V-0 | UL-94 |
| Cell Designation | | 23557B | ASTM D-1784 |



ASTM F437

CPVC Schedule 80 threaded fitting specifications

ASTM F439

CPVC Schedule 80 socket fitting specifications

ASTM F441

CPVC Schedule 80 pipe specifications

ASTM F493

CPVC Solvent Cements

ASTM D1784

Rigid CPVC Compounds

ANSI B2.1

Specifications for threaded fittings and pipe

ANSI B16.1

Specifications for flange type fittings

NSF14

Specifications for potable water and quality control standards

PVC physical properties and ASTM standards for fittings.

PHYSICAL PROPERTIES
PVC SCHEDULE 80 TYPE I, GRADE I

| PHYSICAL PROPERTY | VALUE | REFERENCE |
|--|-----------------|------------|
| Specific Gravity +/- 0.02 | 1.40 | ASTM D792 |
| Tensile Strength, psi @ 73°F | 7100 | ASTM D638 |
| Modulus of Elasticity in Tension, psi @ 73°F | 400,000 | ASTM D638 |
| Flexural Strength, psi | 12,000 – 14,000 | ASTM D790 |
| Izod Impact, Ft. Lbs./in., Notch at 73°F | .65 | ASTM D256 |
| Heat Deflection °F @ 264 psi | 160 | ASTM D648 |
| Heat Resistance °F | 140 | |
| Thermal Conductivity, BTU/hr./sq. Ft./ °F/in. | 1.2 | ASTM C177 |
| Coefficient of Expansion, in./in./ °F x 10 ⁻⁵ | 3.0 | ASTM D696 |
| Water Absorption, % 24 hrs. @ 73°F | .05 | ASTM D570 |
| Cell Classification | 12454B | ASTM D1784 |
| Color Code | Dark Gray | |



STANDARDS

ASTM D1784

Rigid PVC Compounds

ASTM D1785

PVC Schedule 80 pipe specifications

ASTM D2464

PVC Schedule 80 threaded fitting specifications.

ASTM D2467

PVC Schedule 80 socket fitting Specifications

ASTM D2564

PVC Solvent Cements

ASTM D2855

Standard practice for solvent cemented Joints for PVC pipe and fittings.

ANSI B2.1

Specifications for flange type fittings

ANSI B16.1

Specifications for flange type fittings

NSF 14

Specifications for potable water and quality control standards

PVC physical properties and ASTM standards for fittings.

PHYSICAL PROPERTIES
PVC SCHEDULE 40 TYPE I, GRADE I

| PHYSICAL PROPERTY | VALUE | REFERENCE |
|--|-----------------|------------|
| Specific Gravity +/- 0.02 | 1.40 | ASTM D792 |
| Tensile Strength, psi @ 73°F | 7100 | ASTM D638 |
| Modulus of Elasticity in Tension, psi @ 73°F | 400,000 | ASTM D638 |
| Flexural Strength, psi | 12,000 – 14,000 | ASTM D790 |
| Izod Impact, Ft. Lbs./in., Notch at 73°F | .65 | ASTM D256 |
| Heat Deflection °F @ 264 psi | 160 | ASTM D648 |
| Heat Resistance °F | 140 | |
| Thermal Conductivity, BTU/hr./sq. Ft./ °F/in. | 1.2 | ASTM C177 |
| Coefficient of Expansion, in./in./ °F x 10 ⁻⁵ | 3.0 | ASTM D696 |
| Water Absorption, % 24 hrs. @ 73°F | .05 | ASTM D570 |
| Cell Classification | 12454B | ASTM D1784 |
| Color Code | White | |

STANDARDS

ASTM D1784

Standard specifications for PVC Compounds.

ASTM D1785

Standard specifications for PVC Schedule 40 pipe.

ASTM D2466

Standard specifications for socket type PVC Schedule 40 plastic fittings.

ASTM D2564

Standard specifications for PVC Solvent Cements.

ASTM D2855

Standard specifications for making solvent cemented joints with PVC pipe and fittings.

NSF 14

Standard specifications for potable water and quality control.