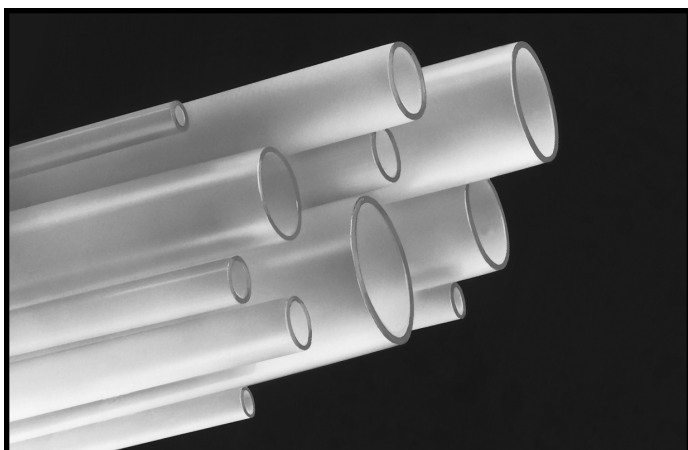


# PETRO SOLEF™ PVDF STOCK TUBING



SOLEF thermoplastic fluoropolymer is strong and tough as exhibited by its tensile and impact strength. Compared to many thermoplastics, SOLEF has excellent resistance to creep and fatigue. It is non-toxic, tasteless and odorless.

## General Properties of SOLEF 460 Grade Polymer

	Method	Units	Typical Values or Ranges <sup>1</sup>
<b>Physical Properties</b>			
Melting Point Range	ASTM D3418	°F °C	320 160
Specific Gravity			1.75-1.77
Refractive Index	ASTM D542	° <sup>25</sup> D	1.42
Water Absorption	ASTM D570	%	0.04
<b>Mechanical Properties</b>			
Tensile Strength at Yield	ASTM D638	psi	6000-6500
Tensile Strength at Break	ASTM D638	psi	5000-7500
Elongation at Yield	ASTM D638	%	8-15
Elongation at Break	ASTM D638	%	50-250
Tensile Modulus	ASTM D882	psi	150-200X10 <sup>3</sup>
Flexural Modulus	ASTM D790	psi	165-260X10 <sup>3</sup>
Impact Strength at room temp.	ASTM D256		
Unnotched		ft-lb/in	15-40
Notched		ft-lb/in	2-4
Hardness	ASTM D2240	Shore D	75-80
<b>Thermal Properties</b>			
Limiting Oxygen Index	ASTM D2863	%	43
Vertical Burn	UL Bulletin 94		V-0

<sup>1</sup> The above information is believed to be accurate, but offers no guarantees or warranties of any kind with regard to its suitability for particular requirements. Please consult PETRO for additional technical assistance.

## Available From Stock in 10 Sizes

SOLEF™ PVDF Tubing is the engineering grade thermo-plastics material of choice for applications requiring *high purity and exceptional corrosion resistance* properties.

A stock tubing extruded from the highest quality Solef 460 Polyvinylidene Fluoride resin, an extremely versatile engineering fluoropolymer with a unique balance of physical, chemical and electrical properties.

### Featured Properties of SOLEF:

- Temperature range from -40°F to 260°F
- High purity – FDA Approved resin
- Resistant to most chemicals and solvents
- High abrasion resistance
- Mechanical strength and toughness
- High dielectric strength
- Resistance to ultraviolet and nuclear radiation
- Resistant to weathering and fungi
- Natural translucent color

### SOLEF PVDF STOCK SIZES – 50 Ft. Coil Lengths

Part Number	ID Inches	OD Inches	Wall Inches	Max Pressure PSI@70°F
HK-01	1/8	1/4	1/16	350
HK-02	.170	1/4	.040	180
HK-03	3/16	5/16	1/16	290
HK-04	1/4	3/8	1/16	240
HK-05	5/16	7/16	1/16	200
HK-06	3/8	1/2	1/16	180
HK-07	1/2	5/8	1/16	145
HK-08	5/8	3/4	1/16	120
HK-09	3/4	7/8	1/16	100
HK-10	7/8	1.0	1/16	90

### Other Stock Products Available From PETRO:

**ACRYLIC PROFILES** – Available from stock in 6 popular sizes.

**NYLA-GLIDE GR™ PROFILES** – MDS-filled Nylon 6 profiles available from stock in 15 standard shapes.

**STOCK PE CHANNELS** – Our stock line of 6 PE channel profiles to cover thicknesses of 1/16" up to 3/8", available off-the-shelf.

**STOCK POLYCARBONATE TUBING** – 38 sizes of Clear stock polycarbonate tubing, available off-the-shelf.

**STOCK PC CHANNELS and ANGLES** – Angle Corner profiles in 1/2", 1", and 1-1/2" sizes – 3 Stock Channel profiles in 1/8" to 3/8" sizes.

SOLEF™ is a trademark of Solvay Specialty Polymers, LLC.



**PETRO EXTRUSION TECHNOLOGIES, INC.**

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