

VersilonTM R-3400 UV-resistant Acid Transfer



Protect Light-Sensitive Fluids



UV-Resistant Acid Transfer Tubing

Versatility in Chemical Resistance

Ideal for virtually any permanent or temporary chemical transfer application, Versilon™ R-3400 tubing combines suppleness and flexibility with resistance to a wide range of chemicals. It shows exceptional resistance to strong acids and many alkalies. The flexibility of Versilon™ R-3400 tubing also makes it quick and easy to put into service, providing considerable savings on installation time and cost when compared to rigid piping systems.

Outstanding UV Resistance

Black in color, Versilon™ R-3400 is resistant to ultraviolet light, ozone and weathering, making it ideal for many outdoor applications. Standard inventoried sizes of Versilon™ R-3400 tubing have sufficient wall thickness to block transmission of all UV light.

Excellent Burn Resistance

Versilon™ R-3400 tubing meets UL 94 V-0 and UL 94 HB flammability ratings. Specifying Versilon™ R-3400 tubing for use in equipment that requires specific burn characteristics can help to simplify the approval process.

Features and Benefits

- black in color to protect lightsensitive fluids
- compatible with a wide range of chemicals
- Ozone resistant
- high temperature rating for excellent burn resistance
- low compression set to minimize permanent deformation
- available in clear formulation for fluid flow monitoring

Typical Applications

- Acid and caustic transfer
- Corrosive diffusible gases
- · Fertilizer and pesticide dispensing
- · Electrical insulation lines
- Ink and adhesive dispensing

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Versilon[™] R-3400 Standard Sizes

Part Number	ID	OD	Wall	Min. Bend Radius	Max. Working Pressure* 22°C (73°F)	Vacuum Rating at 22°C (73°F)
VS1,59UV3,18	1,59 mm (1/16")	3,18 mm (1/8")	0,79 mm (1/32")	6,4 mm	bar (60 psi)	760 mmHg
VS2,38UV3,97	2,38 mm (3/32")	3,97 mm (5/32")	0,79 mm (1/32")	9,5 mm	bar (45 psi)	760 mmHg
VS2,38UV5,56	2,38 mm (3/32")	5,56 mm (7/32")	1,59 mm (1/16")	6,4 mm	bar (80 psi)	760 mmHg
VS3,18UV6,35	3,18 mm (1/8")	6,35 mm (1/4")	1,59 mm (1/16")	9,5 mm	bar (60 psi)	760 mmHg
VS3,97UV7,14	3,97 mm (5/32")	7,14 (9/32")	1,59 mm (1/16")	12,7 mm	bar (50 psi)	760 mmHg
VS4,76UV6,35	4,76 mm (3/16")	6,35 mm (1/4")	0,79 mm (1/32")	25,4 mm	bar (25 psi)	279 mmHg
VS4,76UV7,94	4,76 mm (3/16")	7,94 mm (5/16")	1,59 mm (1/16")	16,13 mm	bar (45 psi)	760 mmHg
VS4,76UV9,53	4,76 mm (3/16")	9,53 mm (3/8")	2,38 mm (3/32")	12,7 mm	bar (60 psi)	760 mmHg
VS6,35UV9,53	6,35 mm (1/4")	9,53 mm (3/8")	1,59 mm (1/16")	25,4 mm	bar (35 psi)	635 mmHg
VS6,35UV11,11	6,35 mm (1/4")	11,11 mm (7/16")	2,38 mm (3/32")	19,0 mm	bar (50 psi)	760 mmHg
VS7,94UV11,11	7,94 mm (5/16")	11,11 mm (7/16")	1,59 mm (1/16")	35,0 mm	bar (30 psi)	406 mmHg
VS9,53UV12,7	9,53 mm (3/8")	12,7 mm (1/2")	1,59 mm (1/16")	44,5 mm	bar (25 psi)	279 mmHg
VS9,53UV15,88	9,53 mm (3/8")	15,88 mm (5/8")	3,18 mm (1/8")	28,5 mm	bar (45 psi)	760 mmHg
VS11,11UV14,29	11,11 mm (7/16")	14,29 mm (9/16")	1,59 mm (1/16")	57,2 mm	bar (20 psi)	203 mmHg
VS12,7UV19,05	12,7 mm (1/2")	19,05 mm (3/4")	3,18 mm (1/8")	44,5 mm	bar (35 psi)	635 mmHg
VS15,88UV22.23	15,88 mm (5/8")	22,23 mm (7/8")	3,18 mm (1/8")	60,4 mm	bar (30 psi)	406 mmHg
VS19,05UV25,4	19,05 mm (3/4")	25,4 mm (1")	3,18 mm (1/8")	82,6 mm	bar (25 psi)	279 mmHg

^{*}Working pressures are calculated at a 1:5 ratio relative to burst pressure using ASTM D1599

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressures, including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use.

Typical Physical Properties of Versilon™ R-3400 Tubing

Property	ASTM Method	Value of Rating	_
Durometer Hardness	D2240-02	64° Shore A, 15s	
Color	-	Black	
Opacity	-	Opaque	
Tensile Strength	D412-98	15,5 MPa (2250 psi)	
Ultimate Elongation	D412-98	350%	
Tear Resistance	D1004-94	32,0 kN/m (185 lb-f/in)	
Specific Gravity	D792-00	1.31	
Tensile Stress @100% Elongation	D412-98	6,9 MPa (1000 psi)	
Maximum Recommended Operating Temperature	-	74 °C (165°F)	
Brittleness by Impact Temperature	D746-98	-21°C (-6°F)	
Water Absorption, % 24 hrs. @ 23°C	D570-98	0.19	Unless otherwise noted, all tests
Compression Set Constant Deflection @70°C for 22 hrs.	D395-02 Method B	64 %	conducted at room temperature (7
Tensile Set	D412-98	56%	Values shown were determined on 0 thick molded ASTM plaques or molded
Dielectric Strength	D149-97	19,3 kV/mm (490 v/mil)	durometer buttons.

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