

TECHNICAL SHEET

VERSABLUE™

Low Density Polyethylene Pipe
for Water Wells and Submersible Pumps

Scope

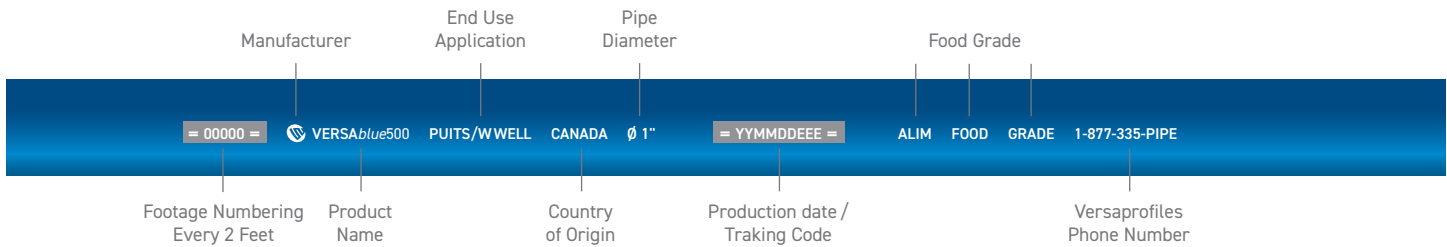
This technical data sheet designates the properties of the **VERSABLUE™** and **VERSABLUE™ 500** from **Versaprofiles**. It describes the minimum requirements established by **Versaprofiles** for the design and manufacture of a pipe especially created for potable and wastewater applications. This pipe is intended and recommended for use at a temperature rating of 23°C (73°F), however occasional exposure to temperatures up to 50°C (120°F) is acceptable.

Raw Material

All **VERSABLUE™** and **VERSABLUE™ 500** pipes are manufactured from low density polyethylene. The raw material is filled with blue UV color concentrate as an ultra violet inhibitor allowing the pipe to be stored outside.

Printline

Versaprofiles VERSABLUE™ and **VERSABLUE™ 500** pipe is identified with permanent marking and sequential footage numbering every two (2) feet.



Handling, joining and installation

Do not drag or roll **VERSABLUE™** and **VERSABLUE™ 500** pipe across rocks or rough ground. Installation and backfill practices for **VERSABLUE™** and **VERSABLUE™ 500** pipe in trenched should comply with guidelines prepared by the Plastics Pipe Institute (PPI)¹.

¹ <http://plasticpipe.org/pdf/chapter07.pdf>

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info@versaprofiles.com 1 877 335 7473



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STANDARD PRODUCT SIZES¹ (VERSABLUE™)

Color : Blue

Nominal Pipe Size in ¹	Minimum Inside Diameter po (mm)	Maximum Inside Diameter po (mm)	~ 100 PSI			~ 200 PSI		
			Minimum Wall Thickness in (mm)	Tolerance ± in (mm)	Weight for 100 ft lb (kg)	Minimum Wall Thickness in (mm)	Tolerance ± in (mm)	Weight for 100 ft lb (kg)
1	1,028	1,059	3,08	0,015	23,6	0,180	0,020	29,4
	(26,1)	(26,9)	(0,150)	(0,38)	(10,7)	(4,58)	(0,5)	(13,4)
1 ½	1,358	1,390	-	-	-	0,247	0,015	51,9
	(34,5)	(35,3)	-	-	-	(6,27)	(0,38)	(23,6)

STANDARD PRODUCT SIZES¹ (VERSABLUE™ 500)

Color : Blue

Nominal Pipe Size in ¹	Minimum Inside Diameter po (mm)	Maximum Inside Diameter po (mm)	~ 160 PSI		
			Minimum Wall Thickness in (mm)	Tolerance ± in (mm)	Weight for 100 ft lb (kg)
1	1,028	1,059	0,175	0,010	27,6
	(26,1)	(26,9)	(4,44)	(0,25)	(18,4)
1 ½	1,358	1,390	0,195	0,020	40,6
	(34,5)	(35,3)	(4,95)	(0,51)	(18,4)

THERMAL EXPANSION CALCULATION

$$\Delta L = L \alpha \Delta T$$

Where

ΔL = Pipeline Length Variation, ft

L = Pipe Length, ft

α = 12×10^{-5} (Linear Thermal Expansion coefficient, in/[in °F])

ΔT = Temperature Variation, °F

FLUID VOLUME CALCULATION

$$V = \pi r^2 L$$

Where

V = Volume, ft³ (m³)

π = 3,1416...

r = Pipe Inside Radius (ID/2), ft (m)

L = Pipe Length, ft (m)

For Weight Calculation, $W = V D$

Where

W = Weight, lb

V = Calculated Volume, ft³

D = Fluid Density, lb/ft³

TEMPERATURE COMPENSATING MULTIPLIER

Maximum Pipe Sustained Temperature		Compensating Multiplier
°F	°C	
-20	-29	2,54
-10	-23	2,36
0	-18	2,18
10	-12	2,00
20t	-7	1,81
30	-1	1,65
40	4	1,49
50	10	1,32
60	16	1,18
73,4	23	1,00
80	27	0,93
90	32	0,82
100	38	0,73
110	43	0,64
120	49	0,58
130	54	0,50
140	60	0,43

¹ Ask your account manager about the availability of the displayed sizes. Versaprofiles may also offer options that are not listed in this document.

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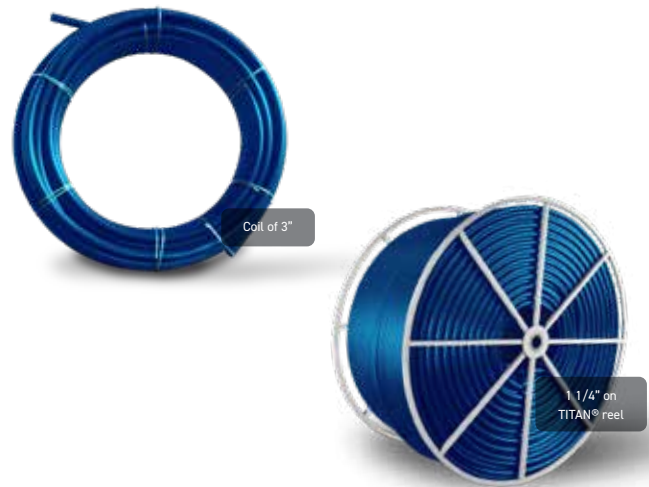
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PACKAGING TYPE AND STANDARD LENGTHS

Nominal Diameter in ¹	Packaging Type	Length ft ²	Skid Size in	Number of Coils/Reels per Skid	Total Height po
1	Coil	100	48 x 48	10	72
		300		6	74
		400		6	65
	TITAN™ Reel	1 500		3	96
1 ½	Coil	100	72 x 72	10	89
		300		4	89
	TITAN™ Reel	900	48 x 40	3	96



¹Other diameters & DR available on request. ²Other roll and coil lengths available on request.



About Versaprofiles

With over 50 years of experience in thermoplastic extrusion, **Versaprofiles** offers innovation to make your job easier and lighten your workload. We are producing pipe and tubing for maple sap, geothermal, water and natural gas distribution applications in addition of specializing into custom made profiles. With our collective expertise in various sectors and our versatile equipment, we can bring your projects to higher level. We work closely and in a friendly atmosphere with each partner to deliver products that meet expectations and provide dedicated customer service.



References: Plastics Pipe Institute (PPI), http://plasticpipe.org/publications/pe_handbook.html

Versaprofiles can change the information contained in this document without notice. Please contact the customer service to receive an updated version.

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