

E X C E L O N

The Excelon System:

F1000, R2000, the 4000 Series &
8000 Series of Pipe, Tube & Fittings

Rigid • Flexible • Braided • Photo Black



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Rigid • Flexible • Braided • Photo Black

F-1000

Clear flexible PVC fittings

R-2000

Clear rigid tubing

R-4000

Clear rigid Schedule 40 PVC pipe

F-4000

Clear flexible Schedule 40 PVC pipe

DR-4000

Clear Schedule 40 DR Acrylic pipe

FB-4000

Flexible braided Schedule 40 PVC pipe

PB-4000*

*Photo black, UV resistant,
rigid Schedule 40 PVC pipe*

R-8000

Clear rigid Schedule 80 PVC pipe

F-8000

Clear flexible Schedule 80 PVC pipe

FB-8000

Flexible braided Schedule 80 PVC pipe

PB-8000*

*Photo black, UV resistant, rigid
Schedule 80 PVC pipe*



Expanding The Proven Success of The Excelon System

The Excelon name demonstrates a high level of **purity, performance and reliability** by providing an **adaptable and cost-effective solution** for any piping application, especially when **visual monitoring** is critical. **The Excelon name has always meant quality.**

At Thermoplastic Processes, Inc., we bring over 50 years of industry experience to our rigid PVC line of pipe and fittings. Only the finest materials are utilized in manufacturing the Excelon System. Our product line includes **Excelon R-2000**, rigid tubing, **Excelon R-4000**, rigid schedule 40 pipe, sweeps and fittings and **Excelon R-8000**, rigid schedule 80 pipe. Completing the core of the Excelon System are **Excelon F-1000**, clear flexible fittings.

The benefits of PVC have always been easily identified and hold true for every product in the Excelon System:

- **superior corrosion resistance**
- **extensive range of chemical resistance**
- **non-contaminating**
- **smooth surface for unrestricted flow**
- **lower sediment accumulation**
- **non-conductive**
- **strong pressure bearing capability**
- **fast and reliable solvent welded fittings**
- **ease of handling and installation.**

Regardless of your application or piping requirement, TPI and the Excelon System can provide a **clear and flexible** solution.



Introducing the Power of Flexible Technology

Today, the Excelon System presents new alternatives with some exciting twists...**Flexible PVC pipe.** TPI unites both rigid and flexible technology to bring the broadest and most extensive clear piping product mix in the industry. Manufactured with the same material and quality as our rigid PVC and under the same **FDA and 3-A sanitary standards**, **Excelon flexible PVC pipe** provides new possibilities in system integrations and configurations. System design can now allow for **flexible sweeps, serpentine construction, goose necks, bend radiuses, expansion/contraction joints**...solutions that provide **less friction and restriction** in moving product through a piping system.

Thermoplastic Processes, Inc.'s flexible PVC pipe line includes **Excelon F-4000**, flexible schedule 40 pipe and **Excelon F-8000**, flexible schedule 80 pipe.

When higher pressure situations require a stronger solution, TPI has also introduced **Excelon FB-4000 and FB-8000, braided schedule 40 and schedule 80 pipe.**

Regardless of your piping system requirements, there is only one clear source to turn to for complete visibility, versatility and fabricatability...TPI.

The Power of Flexibility

Manufactured For Total Visual Control and Greater Value

Whether you're using the standard rigid pipe, tubing and fittings or our new flexible line of PVC pipe, all of our products at Thermoplastic Processes, Inc. are **manufactured in the United States with quality and care.** The Excelon system of tubes, pipe and fittings can be used for **solid, powder, liquid, semi-pneumatic and pneumatic systems.**

FOR FOOD PROCESSING: all Excelon products are produced from a non-toxic compound complying with FDA regulations 175.300, 178.2650 and 178.3790 for use in contact with food, and are 3A approved by the dairy industry standards for fluids containing milk fat.

FOR DUAL CONTAINMENT: for quick visual monitoring of possible system blockage or detection for leaks and complete visibility in high purity applications.

IN THE LABORATORY: accepted for its capability of handling a wide range of chemicals.

FOR CHEMICALS: superior resistance to strong oxidizing and reducing acids, and excellent resistance to mineral oils.

FOR ELECTRICAL CONDUIT: where visual tracing is important, combines the utmost flexibility of installation with effective protection.

FOR PHOTOFINISHING EQUIPMENT: photoblack and lightproof, permits compact design, high efficiency of flow rate, and complete visual control. Does not interact chemically with solutions.

FOR THOUSANDS OF OTHER USES: wherever and whenever pipe and tubing connections are required, always consider the **Excelon System.**

EXCELON R-4000

EXCELON F-4000

EXCELON R-4000



F-1000

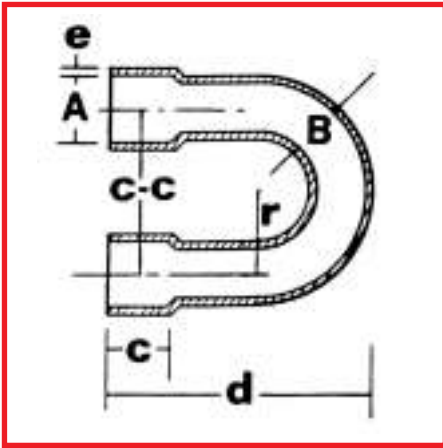
Standard and Custom Clear Flexible Fittings and Configurations

A complete range of sizes in the shapes most often used to turn any tubing into a completely operative liquid, gas or solid transmission system.

The soft flexible F-1000 fittings **slide onto any tubing material** (even metal or glass), **absorb shocks, accommodate vibration, expansion and contraction**. Friction fitted, clamped or assembled with adhesives the F-1000 standard fittings **provide angular flexibility from zero degrees to 180°**.

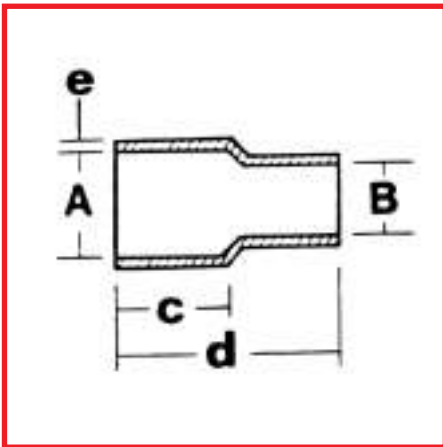
Standard F-1000 fittings are **available from stock** in a complete **range of sizes**, in the **six most used shapes** in tubing systems. Available shapes include: **180° U-bends, straight connectors, reducer fittings, 90° elbows, T-fittings and Y-fittings**.

F-1000 is also available in **custom fittings**. The range of custom engineered Excelon fittings is **virtually unlimited**. They can be designed to **meet the most compact requirements**. Our technical representatives can analyze your needs and recommend the most economical and efficient design configuration and solution for your system.



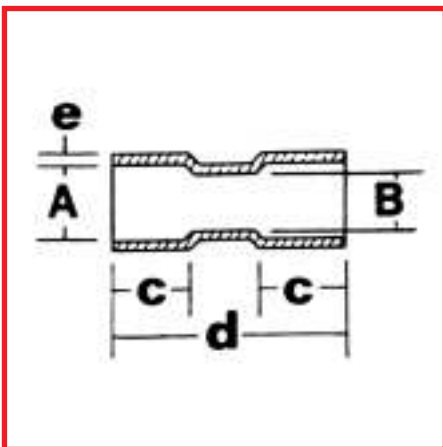
F-1000 – 90° U-Bend Fitting

TUBING SIZE NO.	A	B	C	C-C	D	E	MAX WORKING PRESSURE	PART NO.
F-1U	3/8	1/4	3/8	1	1-1/8	1/16	66	96201
F-2U	7/16	5/16	7/16	1-1/8	1-1/4	1/16	56	96202
F-3U	1/2	3/8	1/2	1-1/4	1-3/8	1/16	50	96203
F-4U	5/8	7/16	5/8	1-1/2	1-7/8	3/32	59	96204
F-5U	3/4	1/2	3/4	1-3/4	2	1/8	66	96205
F-6U	7/8	5/8	7/8	2	2-1/4	1/8	58	96206
F-7U	1	3/4	1	2-1/4	2-1/2	1/8	50	96207
F-8U	1-1/8	7/8	1-1/8	2-3/4	3-1/8	1/8	45	96208
F-9U	1-1/4	1	1-1/4	3-1/2	3-5/8	1/8	40	96209
F-10U	1-3/8	1-1/8	1-3/8	4-1/2	4-1/2	1/8	36	96210
F-11U	1-1/2	1-1/4	1-1/2	5	5	1/8	34	96211
F-13U	2	1-1/2	2	7	6-1/4	1/4	50	96213
F-15U	2-1/2	2	2-1/2	9	8-1/4	1/4	40	96215
F-17U	3	2-1/2	3	10	9-1/2	1/4	34	96217



F-1000 – 90° Reducer Fitting

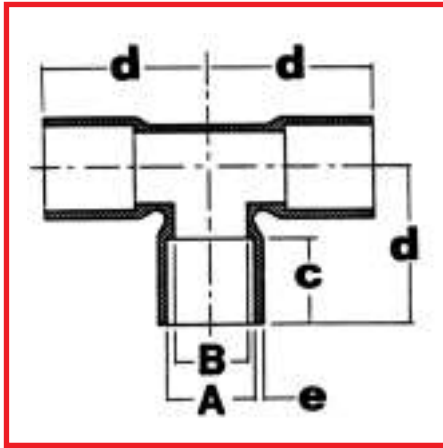
TUBING SIZE NO.	A	B	C	D	E	MAX WORKING PRESSURE	PART NO.
F-1R	3/8	1/4	3/8	5/8	1/16	66	96301
F-2R	7/16	5/16	7/16	3/4	1/16	56	96302
F-3R	1/2	3/8	1/2	13/16	1/16	50	96303
F-4R	5/8	7/16	5/8	1-1/16	3/32	59	96304
F-5R	3/4	1/2	3/4	1-3/8	1/8	66	96305
F-6R	7/8	5/8	7/8	1-9/16	1/8	58	96306
F-7R	1	3/4	1	1-3/4	1/8	50	96307
F-8R	1-1/8	7/8	1-1/8	2	1/8	45	96308
F-9R	1-1/4	1	1-1/4	2-1/8	1/8	40	96309
F-10R	1-3/8	1-1/8	1-3/8	2-3/8	1/8	36	96310
F-11R	1-1/2	1-1/4	1-1/2	2-5/8	1/8	34	96311
F-13R	2	1-1/2	2	3-3/8	1/4	50	96313
F-15R	2-1/2	2	2-1/2	4	1/4	40	96315
F-17R	3	2-1/2	3	4-1/2	1/4	34	96317



F-1000 – 90° Connector Fitting

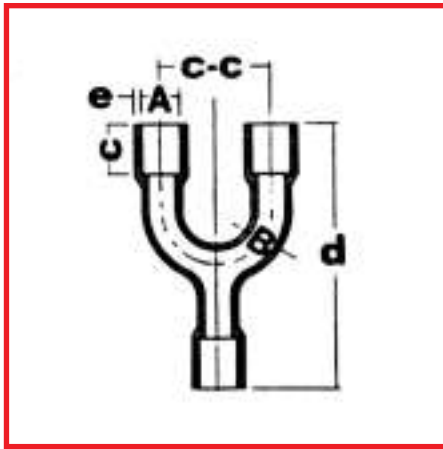
TUBING SIZE NO.	A	B	C	D	E	MAX WORKING PRESSURE	PART NO.
F-1C	3/8	1/4	3/8	1-1/4	1/16	66	96401
F-2C	7/16	5/16	7/16	1-1/2	1/16	56	96402
F-3C	1/2	3/8	1/2	1-5/8	1/16	50	96403
F-4C	5/8	7/16	5/8	2-1/8	3/32	59	96404
F-5C	3/4	1/2	3/4	2-3/4	1/8	66	96405
F-6C	7/8	5/8	7/8	3-1/8	1/8	58	96406
F-7C	1	3/4	1	3-1/2	1/8	50	96407
F-8C	1-1/8	7/8	1-1/8	3-7/8	1/8	45	96408
F-9C	1-1/4	1	1-1/4	4-1/4	1/8	40	96409
F-10C	1-3/8	1-1/8	1-3/8	4-3/4	1/8	36	96410
F-11C	1-1/2	1-1/4	1-1/2	5-1/4	1/8	34	96411
F-13C	2	1-1/2	2	6-3/4	1/4	50	96413
F-15C	2-1/2	2	2-1/2	8	1/4	40	96415
F-17C	3	2-1/2	3	9	1/4	34	96417





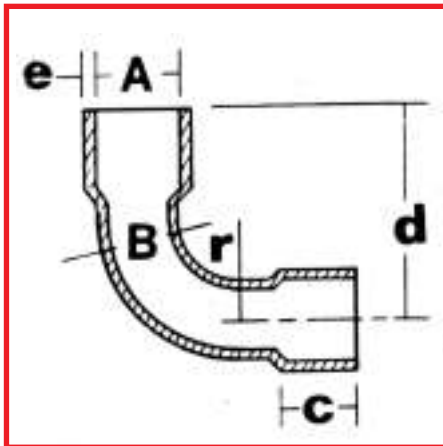
F-1000 – T Fitting

TUBING SIZE NO.	A	B	C	D	E	MAX WORKING PRESSURE	PART NO.
F-1T	3/8	1/4	3/8	5/8	3/32	69	96601
F-2T*	7/16	5/16	7/16	3/4	3/32	62	96602
F-3T	1/2	3/8	1/2	7/8	1/8	50	96603
F-4T	5/8	1/2	5/8	1	1/8	48	96604
F-5T*	3/4	1/2	3/4	1-1/8	5/32	41	96605
F-6T	7/8	5/8	7/8	1-1/2	5/32	37	96606
F-7T	1	3/4	1	1-3/4	5/32	**	96607
F-8T*	1-1/8	7/8	1-1/8	2	5/32	**	96608
F-9T	1-1/4	1	1-1/4	2-1/4	3/16	**	96609
F-10T*	1-3/8	1-1/8	1-3/8	2-1/2	3/16	**	96610
F-11T	1-1/2	1-1/4	1-1/2	2-3/4	3/16	**	96611
F-13T*	2	1-1/2	2	3-1/4	3/16	**	96613
F-15T*	2-1/2	2	2-1/2	4	7/32	**	96615
F-17T*	3	2-1/2	3	5	7/32	**	96617



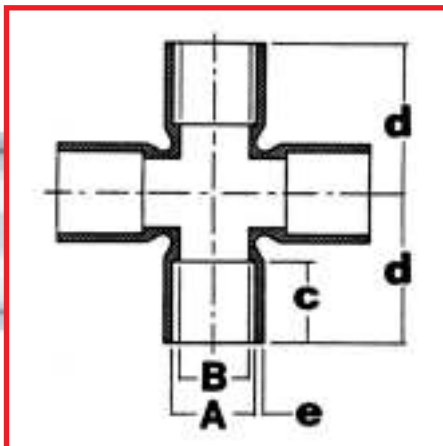
F-1000 – Y Fitting

TUBING SIZE NO.	A	B	C	C-C	D	E	MAX WORKING PRESSURE	PART NO.
F-1Y	3/8	1/4	3/8	13/16	1-1/2	1/8	80	96501
F-2Y*	7/16	5/16	7/16	7/8	1-3/4	1/8	69	96502
F-3Y	1/2	3/8	1/2	1	1-7/8	1/8	62	96503
F-4Y	5/8	1/2	5/8	1	2-1/2	1/8	50	96504
F-5Y*	3/4	1/2	3/4	1	3	5/32	48	96505
F-6Y	7/8	5/8	7/8	1-3/8	3-1/2	5/32	41	96506
F-7Y	1	3/4	1	1-1/2	4	5/32	37	96507
F-8Y*	1-1/8	7/8	1-1/8	1-5/8	4-1/4	5/32	32	96508
F-9Y	1-1/4	1	1-1/4	1-3/4	4-1/2	3/16	**	96509
F-10Y*	1-3/8	1-1/8	1-3/8	2-1/4	5	3/16	**	96510
F-11Y	1-1/2	1-1/4	1-1/2	2-1/2	6	3/16	**	96511
F-13Y*	2	1-3/4	2	3-5/8	8	3/16	**	96514
F-15Y*	2-1/2	2	2-1/2	6	10-1/2	7/32	**	96515
F-17Y*	3	2-1/2	3	7	12	7/32	**	96517



F-1000 – 90° Elbow Fitting

TUBING SIZE NO.	A	B	C	D	E	R	MAX WORKING PRESSURE	PART NO.
F-1E	3/8	1/4	3/8	1-1/16	1/16	1/4	66	96101
F-2E	7/16	5/16	7/16	1-1/8	1/16	3/8	56	96102
F-3E	1/2	3/8	1/2	1-1/4	1/16	1/2	50	96103
F-4E	5/8	7/16	5/8	1-5/8	3/32	5/8	59	96104
F-5E	3/4	1/2	3/4	2	1/8	3/4	66	96105
F-6E	7/8	5/8	7/8	2-3/8	1/8	1	58	96106
F-7E	1	3/4	1	2-3/4	1/8	1-1/8	50	96107
F-8E	1-1/8	7/8	1-1/8	3-1/4	1/8	1-1/2	45	96108
F-9E	1-1/4	1	1-1/4	3-5/8	1/8	1-3/4	40	96109
F-10E	1-3/8	1-1/8	1-3/8	4-1/8	1/8	2	36	96110
F-11E	1-1/2	1-1/4	1-1/2	4-3/4	1/8	2-1/2	34	96111
F-13E	2	1-1/2	2	6-1/2	1/4	3-1/2	50	96113
F-15E	2-1/2	2	2-1/2	8-1/4	1/4	4-1/2	40	96115
F-17E	3	2-1/4	3	9-1/8	1/4	5	34	96117



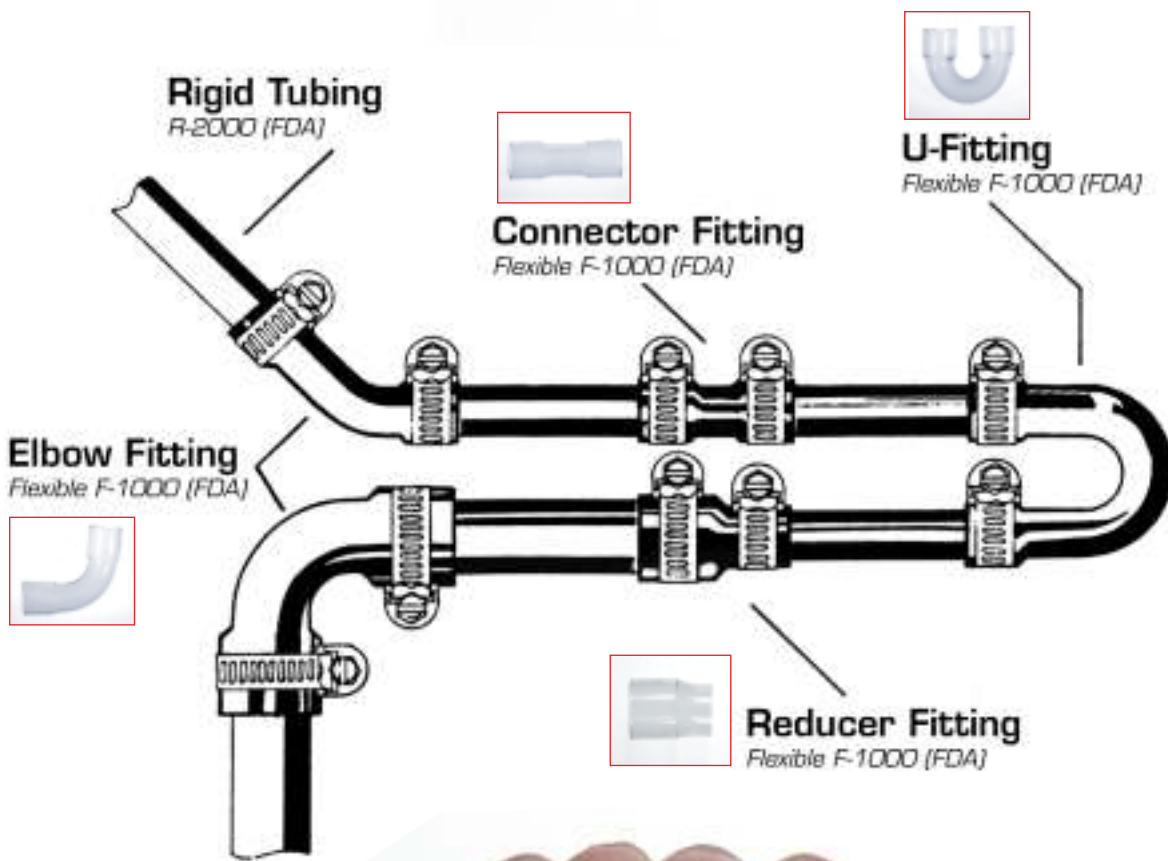
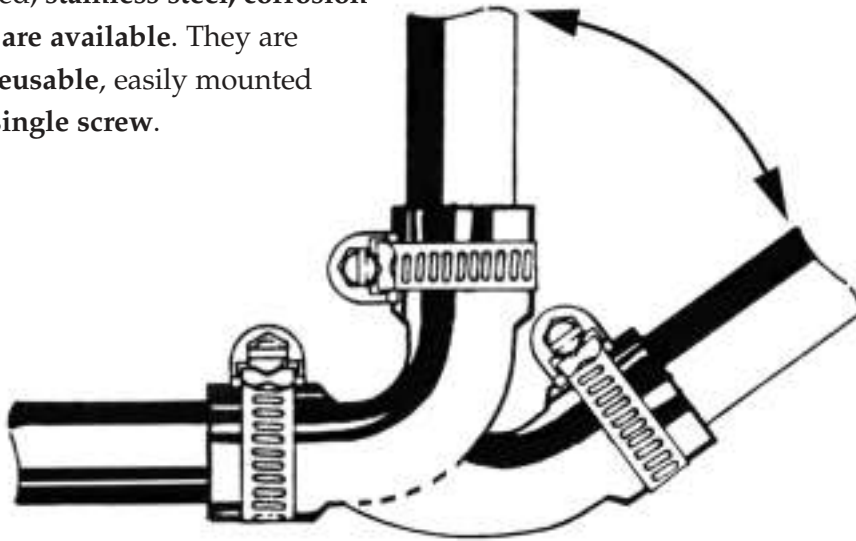
F-1000 – 4-Way Fitting

TUBING SIZE NO.	A	B	C	D	E	MAX WORKING PRESSURE	PART NO.
F-1X	3/8	1/4	3/8	5/8	3/32	66	96701
F-2X	7/16	5/16	7/16	3/4	3/32	56	96702
F-3X	1/2	3/8	1/2	7/8	1/8	50	96703
F-4X	5/8	7/16	5/8	1	1/8	59	96704
F-5X	3/4	1/2	3/4	1-1/8	5/32	66	96705
F-6X	7/8	5/8	7/8	1-1/2	5/32	58	96706
F-7X	1	3/4	1	1-3/4	5/32	50	96707
F-8X	1-1/8	7/8	1-1/8	2	5/32	45	96708
F-9X	1-1/4	1	1-1/4	2-1/4	3/16	40	96709
F-10X	1-3/8	1-1/8	1-3/8	2-1/2	3/16	36	96710
F-11X	1-1/2	1-1/4	1-1/2	2-3/4	3/16	34	96711
F-13X	2	1-1/2	2	3-1/4	3/16	50	96713
F-15X	2-1/2	2	2-1/2	4	7/32	40	96715
F-17X	3	2-1/4	3	5	7/32	34	96717

* Special order item. ** Call for additional information.

Clamps

Where required, stainless steel, corrosion resistant clamps are available. They are removable and reusable, easily mounted by tightening a single screw.



EXCELON R - 2000

EXCELON R - 2000

ON R - 2000

R-2000

Clear, Rigid PVC Tubing

Manufactured with the same **excellent clarity and durability** characteristics as every Excelon product, the R-2000 (FDA) compound can be used for most food contact applications.

Combining the advantages of a clear, rigid tubing system with the versatility of clear, flexible fittings (F-1000), provides total visual control.

The compound used for Excelon R-2000 meets FDA requirements for both ingredients and extraction. Allowing R2000 to be used in contact with the

following types of foods: Nonacid, aqueous products; Acidic, aqueous products; Dairy products and modifications; Low moisture fats and oils; Alcoholic and nonalcoholic beverages; Bakery products; Dry solids.

Whether installed with cements or installed with clamps for easy detachment, the rigid tubing in conjunction with flexible fittings minimize shut-downs by allowing rapid assembly for emergency bypass systems. Where vibration persists or expansion and contraction conditions exist, the Excelon System is ideal.

R-2000 – FDA Tubing

SIZE	ID	ID	OD	OD	WALL	MAX WORK PRES. 73°F	APPROX LBS/FT.	ITEM NO.
R	.170	0.1700	1/4	0.2500	0.0400	448	0.016	*970
R0	3/16	0.1875	5/16	0.3125	0.0625	366	0.029	*9700
R1	1/4	0.2500	3/8	0.3750	0.0625	330	0.036	9701
R2	5/16	0.3125	7/16	0.4375	0.0625	283	0.044	9702
R3	3/8	0.3750	1/2	0.5000	0.0625	248	0.051	9703
R4	1/2	0.5000	5/8	0.6250	0.0625	198	0.066	9704
R5	5/8	0.5625	3/4	0.7500	0.0625	165	0.073	9705
R6	3/4	0.6250	7/8	0.8750	0.0625	142	0.080	9706
R7	7/8	0.8750	1	1.0000	0.0625	124	0.109	9707
R8	1	1.0000	1-1/8	1.1250	0.0625	110	0.124	9708
R9	1-1/8	1.1250	1-1/4	1.2500	0.0625	99	0.139	9709
R10	1-1/4	1.2500	1-3/8	1.3750	0.0625	90	0.153	9710
R11	1-3/8	1.3750	1-1/2	1.5000	0.0625	83	0.168	9711
R-12	1-5/8	1.6250	1-3/4	1.7500	0.0625	70	0.197	9712
R13	1-7/8	1.8750	2	2.0000	0.0625	62	0.226	9713
R14	2-1/8	2.1250	2-1/4	2.2500	0.0625	55	0.255	9714
R15	2-3/8	2.3750	2-1/2	2.5000	0.0625	50	0.284	9715
R16	2-5/8	2.6250	2-3/4	2.7500	0.0625	44	0.314	9716
R17	2-7/8	2.8750	3	3.0000	0.0625	41	0.343	9717

* No Flexible Fittings Available



E X C E L O N R - 2 0 0 0

R-4000

R-8000

Transparent Rigid Pipe

Excelon R-4000 Schedule 40 pipe and R-8000 Schedule 80 pipe are both clear and impact resistant superior PVC. Manufactured by low stress extrusion, these pipes offer unique physical properties to **improve system integrity, help maintain both safety and environmental regulatory standards, provide visual monitoring and keep production rates up.**

Pipe and fittings can be joined together in simple steps using cleaner, primer and cement. Adapter fittings can be used to incorporate Excelon R-4000 or R-8000 into your existing systems of other polymers or metals.

All R-4000 (except 6" ID) and R-8000 pipes and fittings are **manufactured in IPS (Iron Pipe Sizes) to Schedule 40 and 80 dimensions.** Please note that the pressure rating of thermoplastic pipe is conditional with the pipe diameter as well as the systems operating temperature. The pressure rating of the system decreases as the temperature rises. Smaller diameter pipe will withstand higher pressures than larger diameter pipe at increased temperatures.

For easy connectivity, a full line of **rigid fittings, rigid sweeps and flexible sweeps** are available.

Exceptional Use in Dual Containment Systems

The clarity of the Excelon System makes it especially **beneficial in dual containment systems.** In applications requiring control of aggressive high-purity chemicals, **quick visual identification** of primary tubing, **monitoring possible blockage areas** and **easy leak detection** is crucial. This provides **improved safety** to the workplace as well as **increased environmental protection** from hazardous substances.

Even non-corrosive materials may pose potential problems when there are spills or leaks from the primary pipe. Primary pipe failure can be **detected and corrected immediately** saving hours of production down time. Electrical wiring can be protected from system leaks and at the same time, shorts can be **visually detected** by their smokey residue. Damage to equipment and

the production facility can be **prevented** in a dual containment system when difficult to clean materials are being processed, i.e., syrups, oils and dyes.

With sizes ranging from 1/4" to 6" diameters, the Excelon System of pipe provides **ample clearance and clarity for a triple containment system.**

Sight Gauge Assemblies

Since Excelon R-4000 and R-8000 are compatible with other industry standard PVC products, they work extremely well with sight gauge applications.

R-4000 – Clear Schedule 40 Pipe

NOMINAL PIPE SIZE	AVG.	OD	MIN. WALL	LBS./FT.	MAX. WP PSI*	STOCK LGTHS.	LGTHS./CTN.	ITEM NO.
1/4"	0.344	0.540	0.088	0.083	390	8' & 10'	75	4301
3/8"	0.473	0.675	0.091	0.110	310	8' & 10'	50	4302
1/2"	0.602	0.840	0.109	0.164	300	8' & 10'	35	4303
3/4"	0.804	1.050	0.113	0.217	240	8' & 10'	25	4304
1"	1.029	1.315	0.133	0.320	220	8' & 10'	15	4305
1-1/4"	1.360	1.660	0.140	0.432	180	8' & 10'	20	4306
1-1/2"	1.590	1.900	0.145	0.516	170	8' & 10'	16	4307
2"	2.047	2.375	0.154	0.691	140	8' & 10'	12	4308
2-1/2"	2.445	2.875	0.203	1.090	150	8' & 10'	9	4309
3"	3.042	3.500	0.216	1.428	130	8' & 10'	6	4310
3-1/2"	3.521	4.000	0.226	1.721	120	8' & 10'	4	4311
4"	3.998	4.500	0.237	2.035	110	8' & 10'	5	4312
6"	6.375	6.625	0.115	1.549	45	6'	1	43138
6"	6.375	6.625	0.115	1.549	45	10'	1	4316

R-8000 – Clear Schedule 80 Pipe

NOMINAL PIPE SIZE	AVG. ID	OD	WALL	LBS./FT	MAX. WP PSI*	STOCK LGTHS.	LGTHS./CTN.	ITEM NO.
1/4"	.282	0.540	0.119	0.112	570	8'	75	98018
3/8"	.403	0.675	0.126	0.154	460	8'	50	98028
1/2"	.526	0.840	0.147	0.225	420	8'	35	98038
3/4"	.722	1.050	0.154	0.305	340	8'	25	98048
1"	.935	1.315	0.179	0.449	320	8'	15	98058
1-1/4"	1.254	1.660	0.191	0.618	260	8'	9	98068
1-1/2"	1.476	1.900	0.200	0.751	240	8'	9	98078
2"	1.913	2.375	0.218	1.040	200	8'	4	98088
2-1/2"	2.291	2.875	0.276	1.584	210	8'	4	98098
3"	2.864	3.500	0.300	2.124	190	8'	2	98108
4"	3.786	4.500	0.337	2.607	160	8'	1	98118

* For water at 73.4°F with solvent cemented joints. Working pressure decreases by approximately 1.29% per degree F over 73.4.

** This size does not comply with Schedule 40 as to I.D., wall thickness and pressure. Threading is not recommended.

Metric sizes are also available in schedule 40 and schedule 80 pipe. Call your Excelon distributor for specifications and more information.



THIN WALL



Same Rigid Pipe, Thinner Wall

When your application does not require a thick walled pipe, Excelon R-4000 Thin Wall provides a cost effective solution with the same TPI quality.

THIN WALL – Clear Flexible PVC Schedule 40 Pipe

NOMINAL PIPE SIZE	AVG. WALL	OD ID	WALL	LBS./FT.	STOCK LGTHS	ITEM NO.
2"	2.047	2.375	0.118	0.51	10'	9908
3"	3.042	3.5	0.118	0.76	10'	9910
4"	3.998	4.5	0.118	0.99	10'	9912

BELLED ENDS

BELLED ENDS – Rigid Excelon Pipe

NOMINAL PIPE SIZE	AVG. ID	OD	MIN. WALL	LBS./FT	MAX. WP PSI*	STOCK LGTHS.	ITEM NO.
1	1.029	1.315	0.133	0.320	220	10' & 20'	43805
1-1/4"	1.360	1.660	0.140	0.432	180	10' & 20'	43806
1-1/2"	1.590	1.900	0.145	0.516	170	10' & 20'	43807
2"	2.047	2.375	0.154	0.691	140	10' & 20'	43808
2-1/2"	2.445	2.875	0.203	1.090	150	10' & 20'	43809
3"	3.042	3.500	0.216	1.428	130	10' & 20'	43810

Excelon Pipe With Built In Fittings

Eliminate the need for fittings by ordering Excelon Rigid Pipe with belled ends. Available in our Excelon R-2000, R-4000 and R-8000, belled end pipe can be easily cemented to standard Excelon pipe.



F-4000 F-8000

Transparent Flexible PVC Pipe

Since 90° turns cause back flow and back pressure in a system, you have regularly used rigid sweeps or had to heat bend a pipe. TPI now provides a flexible solution, **Excelon F-4000 flexible schedule 40 pipe and Excelon F-8000 flexible schedule 80 pipe. Eliminates heat bending.** Heat bending in the field is a great challenge as well as a time consuming process, and if not done at the proper temperature can induce excessive stress into the pipe.

Flexible Sweeps

With Excelon F-4000 and F-8000, you can now **create sweeps and turns** in your pipe system like never before. Flexible sweeps are one piece sweeps that can be installed instantly.

Smoother turns have many benefits for any pipe system:

- they create less friction in fluid handling
- fewer restrictions
- decreases backpressure
- allows for serpentine installations

- works with fluid, powder and solids
- expansion joints
- prevents fluid from heating up
- goosenecks
- works with standard pinch valves
- misalignment is no longer an issue
- installation time is decreased
- provides a simpler CIP



Flexible Shapes (above)
Shut Off Valve (below)



F-4000 – Clear Flexible Schedule 40 Pipe

NOMINAL PIPE SIZE	AVG. ID	OD	WALL	NOMINAL LBS/FT.	BEND RADIUS	WKNG PSI	FLOW THRU 50'	STOCK LGTHS.	ITEM NO.
1/2"	0.602	0.840	0.119	0.145	2.5"	65	19 gpm	10, 50	4003
3/4"	0.804	1.050	0.123	0.193	3.0"	55	39 gpm	10, 50	4004
1"	1.029	1.315	0.143	0.283	4.0"	50	57 gpm	10, 50	4005
1-1/2"	1.590	1.900	0.155	0.457	7.0"	45	195 gpm	10, 50	4007
2"	2.047	2.375	0.164	0.612	9.0"	40	345 gpm	10, 50	4008

F-8000 – Clear Flexible Schedule 80 Pipe

NOMINAL PIPE SIZE	AVG. ID	OD	WALL	NOMINAL LBS/FT.	BEND RADIUS	WKNG PSI	FLOW THRU 50'	STOCK LGTHS.	ITEM NO.
1/2"	0.526	0.840	0.157	0.180	2.5"	93	17 gpm	10, 50	9503
3/4"	0.722	1.050	0.164	0.250	3.0"	71	34 gpm	10, 50	9504
1"	0.935	1.315	0.190	0.360	4.0"	63	50 gpm	10, 50	9505
1-1/2"	1.476	1.900	0.212	0.600	7.0"	44	170 gpm	10, 50	9507
2"	1.913	2.375	0.231	0.840	9.0"	37	300 gpm	10, 50	9508



R-4000 & R-8000 – Fittings

TYPE OF FITTING	SIZE	LBS. PER CARTON	CTN QTY (PCS.)	PART NO.
45 deg. Elbow	1/4	1	25	432400
45 deg. Elbow	1/2	6	250	432401
45 deg. Elbow	3/4	9-1/2	100	432402
45 deg. Elbow	1	14	50	432403
45 deg. Elbow	1-1/2	16-1/2	50	432405
45 deg. Elbow	2	24	25	432406
45 deg. Elbow	2-1/2	12	10	432425
45 deg. Elbow	3	12	10	432407
45 deg. Elbow	4	9-1/2	4	432408
45 deg. Elbow	6	5	2	432409
90 deg. Elbow	1/4	1	25	432000
90 deg. Elbow	1/2	6	250	432001
90 deg. Elbow	3/4	9-1/2	250	432002
90 deg. Elbow	1	14	50	432003
90 deg. Elbow	1-1/4	16	50	432004
90 deg. Elbow	1-1/2	16-1/2	50	432005
90 deg. Elbow	2	24	50	432006
90 deg. Elbow	2-1/2	12	10	432025
90 deg. Elbow	3	12	10	432007
90 deg. Elbow	4	9	5	432008
90 deg. Elbow	6	5	1	432009
Tee	1/4	1	25	432110
Tee	1/2	7-1/2	100	432111
Tee	3/4	11	100	432112
Tee	1	20	100	432113
Tee	1-1/2	22	50	432115
Tee	2	16	25	432116
Tee	3	9	5	432117
Tee	4	10	4	432118
Tee	6	7	1	432119
Slip coupling	1/4	1	25	432300
Slip coupling	1/2	5-1/2	100	432301
Slip coupling	3/4	7-1/2	100	432302
Slip coupling	1	10	100	432303
Slip coupling	1-1/4	10	50	432304
Slip coupling	1-1/2	20-1/2	100	432305
Slip coupling	2	13	50	432306
Slip coupling	2-1/2	9	10	432325
Slip coupling	3	9	10	432307
Slip coupling	4	10	8	432308
Slip coupling	6	12	4	432309



Female



Male



Slip Coupling

TYPE OF FITTING	SIZE	LBS. PER CARTON	CTN QTY (PCS.)	PART NO.
Female	1/4	1	25	432310
Female	1/2	5	100	432316
Female	3/4	7	100	432317
Female	1	9-1/2	100	432318
Female	1-1/2	20	100	432320
Female	2	13	50	432321
Female	3	7	10	432322
Female	4	5	5	432323
Male	1/2	4	100	432336
Male	3/4	5-1/2	100	432337
Male	1	8-1/2	100	432338
Male	1-1/4	8-1/2	50	432339
Male	1-1/2	8-1/2	50	432340
Male	2	12-1/2	50	432341
Male	3	12-1/2	16	432342
Male	4	12	12	432343
Reducer Bushing	3/4 x 1	16	250	432601
Reducer Bushing	1 x 1/2	16	250	432602
Reducer Bushing	1 x 3/4	16	250	432603
Reducer Bushing	1-1/4 x 1/2	12	150	432604
Reducer Bushing	1-1/4 x 3/4	12	150	432605
Reducer Bushing	1-1/4 x 1	12	150	432606
Reducer Bushing	1-1/2 x 1-1/4	20	100	432607
Reducer Bushing	2 x 2-1/2	14	50	432608
Slip caps	1/4	1	25	432499
Slip caps	1/2	5	250	432500
Slip caps	3/4	10	250	432501
Slip caps	1	15	250	432502
Slip caps	1-1/2	6	50	432503
Slip caps	2	9	50	432504
Slip caps	2-1/2	8	15	432525
Slip caps	3	8	15	432505
Slip caps	4	7	9	432506



45° Elbow



90° Elbow



Tee



Cap

FB-4000

FB-8000

Flexible Braided PVC Pipe

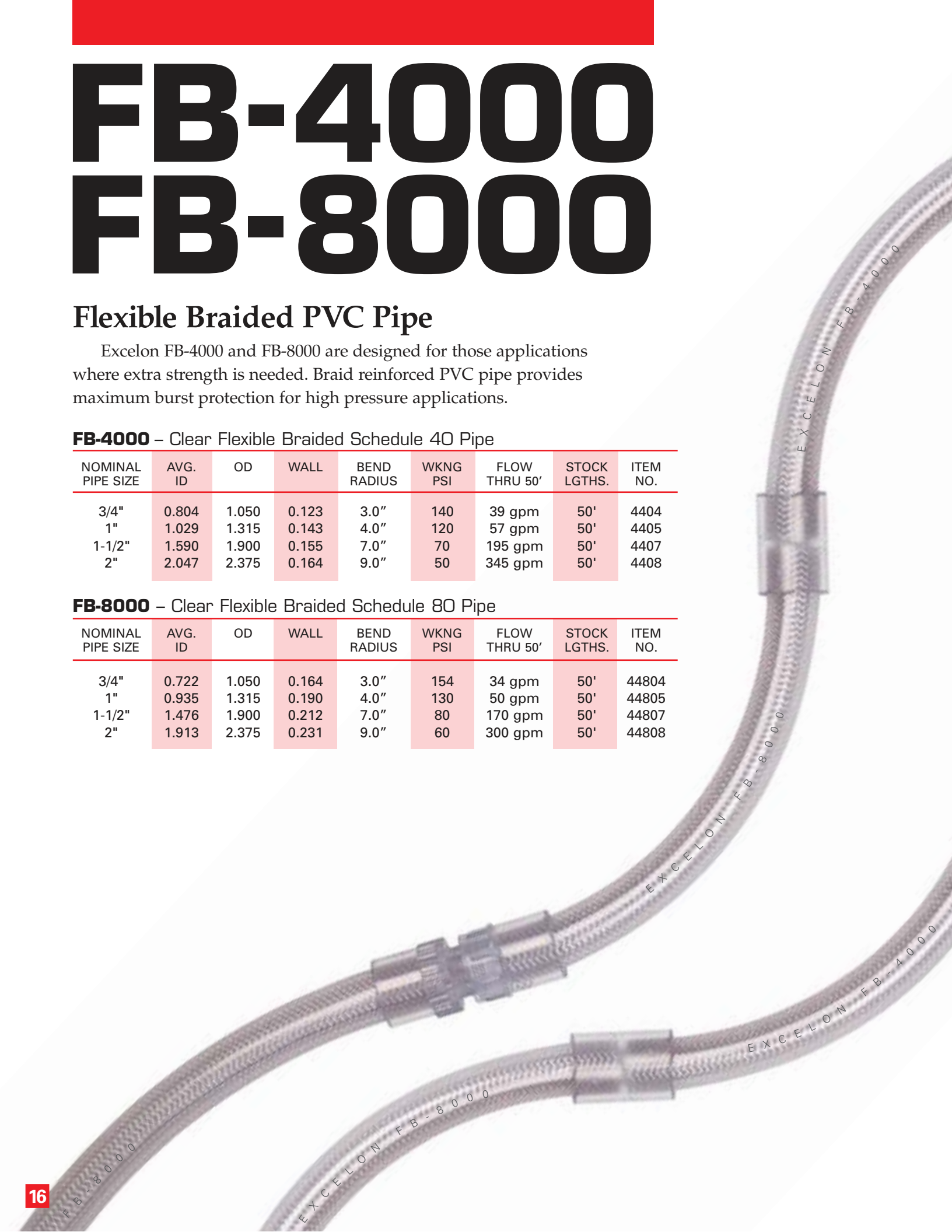
Excelon FB-4000 and FB-8000 are designed for those applications where extra strength is needed. Braid reinforced PVC pipe provides maximum burst protection for high pressure applications.

FB-4000 – Clear Flexible Braided Schedule 40 Pipe

NOMINAL PIPE SIZE	AVG. ID	OD	WALL	BEND RADIUS	WKNG PSI	FLOW THRU 50'	STOCK LGTHS.	ITEM NO.
3/4"	0.804	1.050	0.123	3.0"	140	39 gpm	50'	4404
1"	1.029	1.315	0.143	4.0"	120	57 gpm	50'	4405
1-1/2"	1.590	1.900	0.155	7.0"	70	195 gpm	50'	4407
2"	2.047	2.375	0.164	9.0"	50	345 gpm	50'	4408

FB-8000 – Clear Flexible Braided Schedule 80 Pipe

NOMINAL PIPE SIZE	AVG. ID	OD	WALL	BEND RADIUS	WKNG PSI	FLOW THRU 50'	STOCK LGTHS.	ITEM NO.
3/4"	0.722	1.050	0.164	3.0"	154	34 gpm	50'	44804
1"	0.935	1.315	0.190	4.0"	130	50 gpm	50'	44805
1-1/2"	1.476	1.900	0.212	7.0"	80	170 gpm	50'	44807
2"	1.913	2.375	0.231	9.0"	60	300 gpm	50'	44808



PB-4000

PB-8000

Photo Black PVC Pipe

The newest additions to the rigid line of the Excelon System are Excelon PB-4000 and PB-8000. Opaque and UV resistant, Excelon Photo Black pipe allows no light to pass through protecting any light sensitive material that is being processed.

PB-4000 – Photo Black Rigid Schedule 40 Pipe

NOMINAL PIPE SIZE	AVG. ID	OD	WALL	STOCK LGTHS.	ITEM NO.
1/4"	0.344	0.540	0.088	10', 50'	43401
3/8"	0.473	0.675	0.091	10', 50'	43402
1/2"	0.602	0.840	0.109	10', 50'	43403
3/4"	0.804	1.050	0.113	10', 50'	43404
1"	1.029	1.315	0.133	10', 50'	43405
1-1/4"	1.360	1.660	0.140	10', 50'	43406
1-1/2"	1.590	1.900	0.145	10', 50'	43407
2"	2.047	2.375	0.154	10', 50'	43408

PB-8000 – Photo Black Rigid Schedule 80 Pipe

NOMINAL PIPE SIZE	AVG. ID	OD	WALL	STOCK LGTHS.	ITEM NO.
1/4"	0.282	0.540	0.119	10', 50'	43801
3/8"	0.403	0.675	0.126	10', 50'	43802
1/2"	0.526	0.840	0.147	10', 50'	43803
3/4"	0.722	1.050	0.154	10', 50'	43804
1"	0.935	1.315	0.179	10', 50'	43805
1-1/4"	1.254	1.660	0.191	10', 50'	43806
1-1/2"	1.476	1.900	0.200	10', 50'	43807
2"	1.913	2.375	0.218	10', 50'	43808

DR-4000

Ultra Clear, Schedule 40 DR Acrylic Pipe

When ultimate clarity is necessary, you need Excelon DR-4000. Excelon's Ultra Clear DR Acrylic pipe not only provides an incredibly clear view, but the specially formulated Acrylic compound gives it superior impact strength. Unlike standard Acrylic products, DR-4000 resists the adverse effects of outdoor weathering and retains its physical properties as well as its ultra clear appearance after long periods of exposure.

DR-4000 – Ultra Clear Rigid Schedule 40 Pipe

NOMINAL PIPE SIZE	AVG. ID	OD	MIN. WALL	LBS./FT.	STOCK LGTHS.	LGTHS./ CTN.	FT./CTN 10' LGTHS	ITEM NO.
1/4"	0.346	0.540	0.088	0.0673	10	75	750	5201
3/8"	0.473	0.675	0.091	0.0908	10	50	500	5202
1/2"	0.602	0.840	0.109	0.1344	10	35	350	5203
3/4"	0.804	1.050	0.113	0.1786	10	25	250	5204
1"	1.029	1.315	0.133	0.2625	10	15	150	5205
1-1/4"	1.360	1.660	0.140	0.3548	10	20	200	5206
1-1/2"	1.590	1.900	0.145	0.4236	10	16	160	5207

RIGID SWEEPS

RIGID SWEEPS – 90°

PIPE SIZE (IN.)	ITEM NO.	PIPE SIZE (IN.)	ITEM NO.
1/4	43601	1-1/2	43607
3/8	43602	2	43608
1/2	43603	2-1/2	43609
3/4	43604	3	43610
1	43605	3-1/2	43611
1-1/4	43606	4	43612

Available radius: 24", 36", 48"
Call for information on 45° sweeps



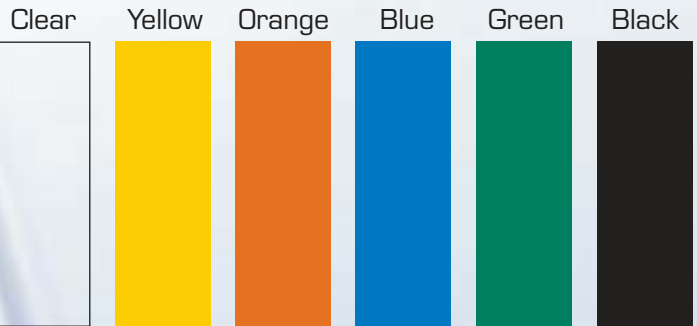
EXCELON DR-4000

SNAP-ONS

Clear Snap-On Label Protection and Coding System

Protect pipe signage or color code a pipe system with the Excelon Snap-On program. Our clear or opaque polycarbonate pipe cover is slit to easily overlap any standard pipe size. Snap-Ons fit 1" to 4" pipe or cable and are produced in 10 ft. lengths. Snap-Ons are easy to cut allowing you to fit any length necessary.

Use the clear snap-ons to protect pipe signage and labels over any type of piping system; PVC, stainless steel, glass, etc. Use the solid opaque snap-ons to identify and color code a pipe system. Opaque Snap-Ons are featured in yellow, orange, blue, green and black. When used over the Excelon System snap-ons provide UV protection.



AVAILABLE PRODUCTS



Double Containment Valve Box



Cement, Primer and Cutter



Cementing Instructions

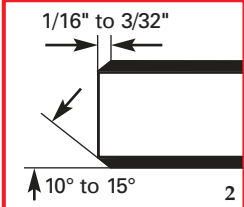
1) The Excelon System Pipe can be cut easily with standard pipe or plastic tube cutter.

2) Chamfer pipe ends according to dimensions diagramed. Be sure pipe and fitting are free of dirt, moisture and grease.

3) Using liberal coats of Primer, prime inside of fitting socket and outside surface of pipe to depth of socket.

4) Cement should then be applied immediately to primed pipe surface. A lighter coat is applied to inside of fitting socket and a final second coat to the pipe end.

5) While both surfaces are wet and soft, push and twist pipe into socket and hold together until both surfaces are firm (about 30 seconds). Allow joint to cure before pressure testing.



Custom Manifold



Custom Housings



Custom Diptubes

Our Service and Fabrication department is ready to serve your custom fabrication and sub-assembly needs. Call 888-554-6400 with your requirements for more details.

FLUID HANDLING

TPI offers a full line of fluid handling products. Call your local Excelon distributor for more information on any fluid handling need.



Flex[®]: Spiral Reinforced PVC Suction Hose



PolyPro[®]: Polypropylene Tubing



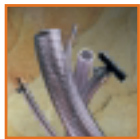
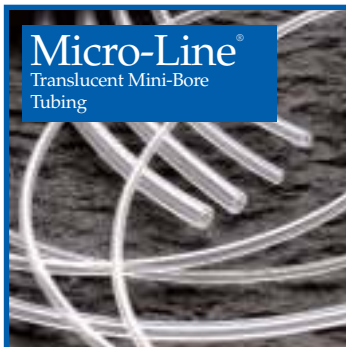
S-Con[®]: Silicone Tubing



MDX Braid[®]: Platinum Cured Braid
Reinforced Medical
Grade Silicone Hose



Superthane[®]: Polyurethane Tubing



Vardex[®]: Steel Wire Reinforced PVC Hose



V-Flex[®]: Flexible Viton[®] Tubing



RNT[®]: Clear Flexible PVC Tubing



GO-1480[®]: Chemical and Petrochemical
Transfer Tubing



SL[®]: Flexible, Non-Allergenic PVC Tubing

PVC Chemical Resistance Chart

RECOMMENDED (tested @ 72° F, 104°F)

ACETIC ACID, 10%, 20%
ACETYLENE
ADIPIC ACID
ALUM
ALUMINUM ALUM
ALUMINUM ALUM
ALUMINUM CHLORIDE
ALUMINUM FLUORIDE
ALUMINUM HYDROXIDE
ALUMINUM OXYCHLORIDE
ALUMINUM NITRATE
ALUMINUM SULFATE
AMMONIA (DRY GAS)
AMMONIUM ACETATE
AMMONIUM ALUM
AMMONIUM BIFLUORIDE
AMMONIUM CARBONATE
AMMONIUM CHLORIDE
AMMONIUM HYDROXIDE
AMMONIUM HYDROXIDE,
10%, 28%
AMMONIUM METAPHOSPHATE
AMMONIUM NITRATE
AMMONIUM PERSULFATE
AMMONIUM PHOSPHATE
AMMONIUM SULFATE
AMMONIUM SULFIDE
AMMONIUM THIOCYANATE
ANTHRAQUINONE
SULFONIC ACID
ANTIMONY TRICHLORIDE
ARSENIC ACID, 80%
BARIUM CARBONATE
BARIUM CHLORIDE
BARIUM HYDROXIDE
BARIUM SULFATE
BARIUM SULFIDE
BEER
BEET SUGAR LIQUORS
BENZOIC ACID
BISMUTH CARBONATE
BLACK LIQUOR
BLEACH (12% CL)
BORAX
BORIC ACID
BREEDERS PELLETS
(fish derivative)
BROMIC ACID
CADMIUM CYANIDE
CALCIUM BISULFIDE
CADMIUM BISULFITE
CALCIUM CARBONATE
CALCIUM CHLORIDE
CALCIUM HYDROXIDE
CALCIUM HYPOCHLORITE
CALCIUM NITRATE
CALCIUM SULFATE
CARBON DIOXIDE
CARBON MONOXIDE
CARBONIC ACID
CASTOR OIL
CAUSTIC POTASH
CAUSTIC SODA
CHLORAL HYDRATE
CHLORIC ACID, 20%
CHLORIDE (WATER)
CHLORINE WATER
CHROME ALUM

CITRIC ACID
COPPER CARBONATE
COPPER CHLORIDE
COPPER CYANIDE
COPPER FLUORIDE
COPPER NITRATE
COPPER SULFATE
CORN SYRUP
COTTONSEED OIL
CUPRIC FLUORIDE
CUPRIC SULFATE
CUPROUS CHLORIDE
DETERGENTS
DEXTRIN
DEXTROSE
DIAZO SALTS
DIGLYCOLIC ACID
DISODIUM PHOSPHATE
DISTILLED WATER
ETHYLENE GLYCOL
FATTY ACIDS
FERRIC CHLORIDE
FERRIC HYDROXIDE
FERRIC NITRATE
FERRIC SULFATE
FISH SOLUBLES
FLUOBORIC ACID
FLUORINE GAS (WET)
FLUOROSILICIC ACID, 25%
FRUCTOSE
FRUIT JUICES & PULP
GALLIC ACID
GLUCOSE
GLYCOLIC ACID
GRAPE SUGAR
HYDROBROMIC ACID, 20%
HYDROCHLORIC ACID, 10%,
30%, 35%
HYDROCYANIC ACID
HYDROGEN
HYDROGEN PEROXIDE, 30%,
50%, 90%
HYDROGEN SULFIDE
HYDROQUINONE
HYDROXYLAMINE SULFATE
HYPOCHLORENE ACID
HYPOCHLOROUS ACID
KEROSENE
KRAFT LIQUORS
LACTIC ACID, 25%
LAURIC ACID
LEAD ACETATE
LEAD CHLORIDE
LEAD SULFATE
LINOLEIC ACID
LINSEED OIL
LITHIUM BROMIDE
LUBRICATING OIL, ASTM #1,
ASTM #2
MACHINE OIL
MAGNESIUM CARBONATE
MAGNESIUM CHLORIDE
MAGNESIUM HYDROXIDE
MAGNESIUM NITRATE
MAGNESIUM SULFATE
MALEIC ACID
MANUFACTURED GAS
MERCURIC CHLORIDE
MERCURIC CYANIDE
MERCUROUS NITRATE

MERCURY
METHYL ALCOHOL
METHYL SULFURIC ACID
MILK
MOLASSES
MURIATIC ACID
NATURAL GAS
NICKEL CHLORIDE
NICKEL NITRATE
NICKEL SULFATE
NICOTINE
NICOTINE ACID
NITROUS OXIDE
OILS & FATS
OIL, SOUR CRUDE
OLEIC ACID
OXALIC ACID
OXYGEN
OZONE
PALMITIC ACID, 10%
PERCHLORIC ACID, 10%
PETROLEUM LIQUEFIER
PHOSGENE, GAS
PHOSPHORIC ACID, 10%, 25%,
75%, 85%
PHOTO, SOLUTIONS DK
#3
DEKTAL DEVELOPER
KODAK FIXER
KODAK SHORT STOP
POTASSIUM ALUM
POTASSIUM BICARBONATE
POTASSIUM BICHROMATE
POTASSIUM BORATE
POTASSIUM BROMIDE
POTASSIUM CARBONATE
POTASSIUM CHLORATE
POTASSIUM CHLORIDE
POTASSIUM CHROMATE
POTASSIUM CYANIDE
POTASSIUM DICHROMATE
POTASSIUM FERRICYANIDE
POTASSIUM FERROCYANIDE
POTASSIUM FLUORIDE
POTASSIUM HYDROXIDE
POTASSIUM NITRATE
POTASSIUM PERBORATE
POTASSIUM PERCHLORATE
POTASSIUM PERMANGANATE,
10%
POTASSIUM SULFATE
PROPANE
PROPANE GAS
PLATING SOLUTIONS
BRASS
CADMIUM
COPPER
GOLD
INDIUM
LEAD
NICKEL
RHODIUM
SILVER
TIN
ZINC
RAYON COAGULATING BATH
SEAWATER
SEWERAGE
SILICIC ACID
SILVER CYANIDE

SILVER NITRATE
SILVER PLATING SOLUTION
SILVER SULFATE SOAPS
SODIUM ACETATE
SODIUM ALUM
SODIUM BENZOATE
SODIUM BICARBONATE
SODIUM BISULFATE
SODIUM BISULFITE
SODIUM BROMIDE
SODIUM CARBONATE
SODIUM CHLORATE
SODIUM CHLORIDE
SODIUM CYANIDE
SODIUM DICHROMATE
SODIUM FERRICYANIDE
SODIUM FERROCYANIDE
SODIUM FLUORIDE
SODIUM HYDROXIDE, 10%, 30%,
50%
SODIUM HYPOCHLORITE
SODIUM NITRATE
SODIUM SULFATE
SODIUM SULFIDE
SODIUM SULFITE
SOUR CRUDE OIL (WEST TEXAS)
STANNIC CHLORIDE
STARCH
STEARIC ACID
SULFUR
SULFUR DIOXIDE, (DRY)
SULFUR TRIOXIDE
SULFURIC ACID, 3%, 10%, 20%,
33%, 50%, 70%
SULFUROUS ACID
TAN OIL
TANNIC ACID
TARTARIC ACID
TANNING LIQUORS
TRISODIUM PHOSPHATE
UREA
URINE
VINEGAR
WATER, ACID MINE
WATER, DEIONIZED
WATER, DEMINERALIZED
WATER, DISTILLED
WATER, FRESH
WATER, SALT
WHISKEY
WINES
ZINC CHLORATE
ZINC SULFATE
ZINC NITRATE

RECOMMENDED (@ 72° F)

ANTHRAQUINONE
ARYLSULFONIC ACID
BUTYL ALCOHOL
BUTYL PHENOL
CELLOSOLVE
CHLORACETIC ACID
CRESYLIC ACID, 50%
CRUDE OIL
ETHYL ALCOHOL
FORMALDEHYDE
FORMIC ACID
HEPTANE

HEXANOL, TERTIARY
 HYDROFLUORIC ACID, 48%
 LINOLEIC OIL
 LUBRICATING OIL, ASTM #3
 METHYL SULFATE
 NAPHTHA
 NITRIC ACID, 10%, 30%, 60%
 PHENYLDHYDRAZINE
 HYDROCHLORIDE
 PHOSPHORUS (YELLOW)
 PHOSPHORUS PENTRIOXIDE
 POTASSIUM PERMANGANATE,
 25% @125°F
 PROPARGYL ALCOHOL
 PROPYL ALCOHOL
 TETRAETHYL LEAD
 TRIETHANOLAMINE
 TRIMETHYL PROPANE

ALLYL ALCOHOL, 96%
 ALLYL CHLORIDE
 AMMONIA (LIQUID)
 AMMONIUM FLUORIDE, 25%
 AMYL ACETATE
 AMYL ALCOHOL
 AMYL CHLORIDE
 ANILINE
 ANILINE CHLOROHYDRATE
 ANILINE HYDROCHLORIDE
 AQUA REGIA
 AROMATIC HYDROCARBONS
 BENZALDEHYDE, 10% & Above
 BENZENE
 BROMINE, LIQUID
 BROMINE WATER
 BUTADIENE
 BUTANE
 BUTANOL, PRIMARY
 BUTANOL, SECONDARY
 BUTYL ACETATE
 BUTYNE DIOL
 BUTYRIC ACID
 CARBON BISULFIDE
 CARBON TETRACHLORIDE
 CHLORINE (DRY)
 CHLORINE, GAS
 CHLORINE GAS (WET)

CHLOROBENZENE
 CHLOROFORM
 CHROMIC ACID, 10%, 50%
 CRESOL
 CROTONALDEHYDE
 CYCLOHEXANOL
 CYCLOHEXANONE
 DIMETHYLAMINE
 DIOCTYLPHTHALATE
 ESTERS
 ETHERS
 ETHYL ACETATE
 ETHYL ACRYLATE
 ETHYL CHLORIDE
 ETHYL ETHER
 ETHYLENE BROMIDE
 ETHYLENE CHLOROPHYDRIN
 ETHYLENE DICHLORIDE
 ETHYLENE OXIDE
 FLUORINE, GAS
 FURFURAL
 HEXANE
 HYDROFLUORIC ACID, 50%
 IODINE
 KETONES
 LIQUORS
 METHYL CHLORIDE
 METHYLENE CHLORIDE

METHYL ETHYL KETONE
 METHYL ISO-BUTYL KETONE
 NAPHTHALENE
 NITRIC ACID, ANHYDROUS
 NITRIC ACID, 68%
 NITROBENZENE
 OLEUM
 PALMITIC ACID, 70%
 PERACETIC ACID, 40%
 PERCHLORIC ACID, 15%, 70%
 PHENYLDHYDRAZINE
 PHOSGENE, LIQUID
 PHOSPHORUS TRICHLORIDE
 PICRIC ACID
 PROPYLENE DICHLORIDE
 STODDARDS SOLVENT
 SULFUR DIOXIDE (WET)
 SULFURIC ACID, 80%, 85%, 94%,
 95%
 TETRAHYDROFURANE
 THIONYL CHLORIDE
 TITANIUM TETRACHLORIDE
 TOLUOL or TOLUENE
 TRIBUTYL PHOSPHATE
 TRICHLOROETHYLENE
 TURPENTINE
 VINYL ACETATE
 XYLENE or XYLOL

NOT RECOMMENDED

ACETALDEHYDE
 ACETIC ACID, PURE
 ACETIC ACID, 80%
 ACETIC ACID, GLACIAL
 ACETIC ANHYDRIDE
 ACETONE

PLEASE NOTE: This list is intended to be used as a guide. Please talk with TPI with specific concerns and remember to test all products under the conditions in your specific application.

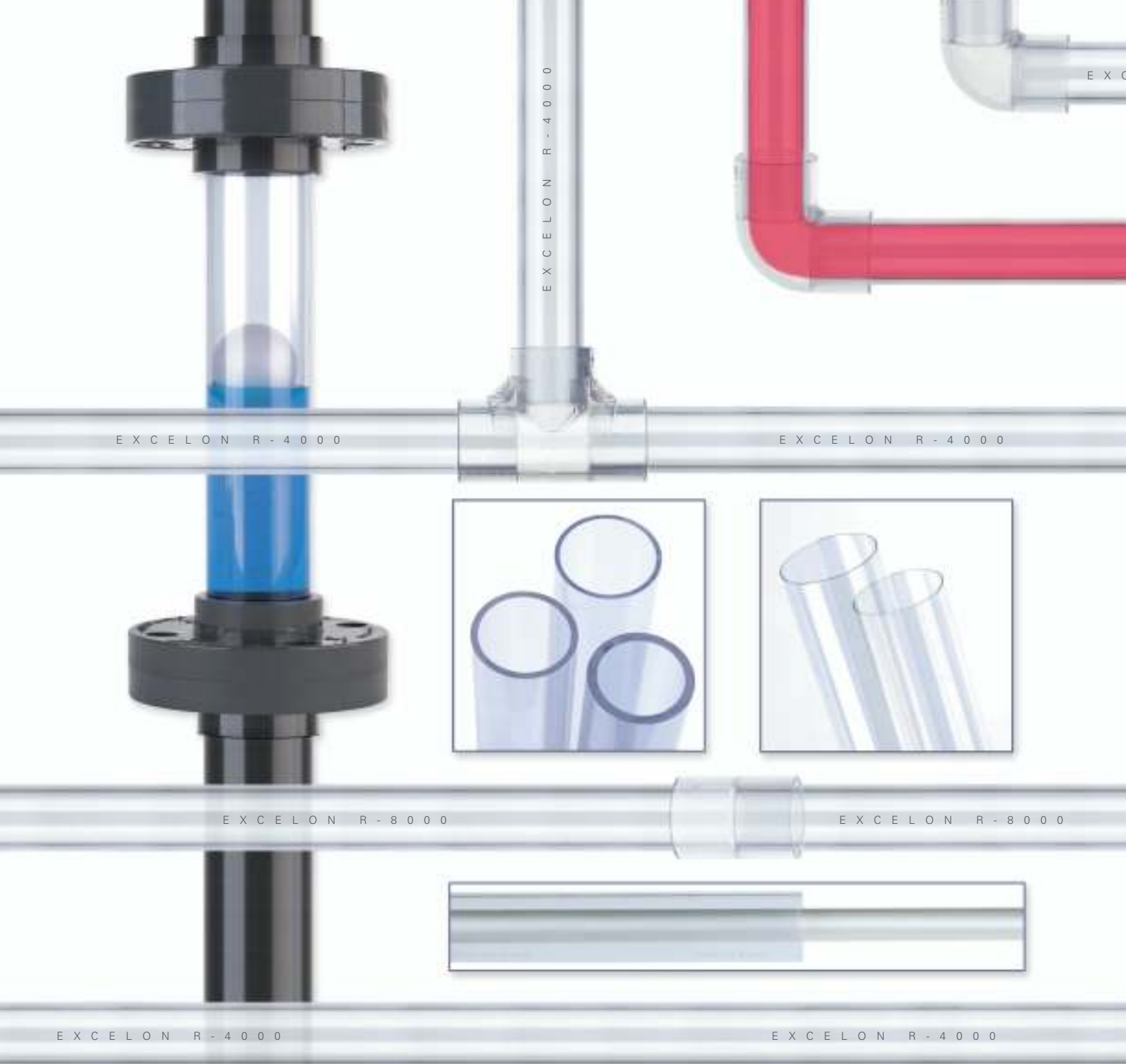
Suggested Support Spacing for PVC Excelon System

Pipe Size (in.)	Schedule 40 PVC Temperature, °F				
	60	80	100	120	140
1/2	4.5	4.5	4	2.5	2.5
3/4	5	4.5	4	2.5	2.5
1	5.5	5	4.5	3	2.5
1-1/4	5.5	5.5	5	3	3
1-1/2	6	5.5	5	3.5	3
2	6	5.5	5	3.5	3
2-1/2	7	6.5	6	4	3.5
3	7	7	6	4	3.5
3-1/2	7.5	7	6.5	4	4
4	7.5	7	6.5	4.5	4

Pipe Size (in.)	Schedule 80 PVC Temperature, °F				
	60	80	100	120	140
1/2	5	4.5	4.5	3	2.5
3/4	5.5	5	4.5	3	2.5
1	6	5.5	5	3.5	3
1-1/4	6	6	5.5	3.5	3
1-1/2	6.5	6	5.5	3.5	3.5
2	7	6.5	6	4	3.5
2-1/2	7.5	7.5	6.5	4.5	4
3	8	7.5	7	4.5	4
3-1/2	8.5	8	7.5	5	4.5
4	9	8.5	7.5	5	4.5

Excelon System R-4000 Physical Properties

Appearance	clear pellets
Bulk Density, lbs./cu. ft.	48.0
Volatile Matter % ₁₆ max	0.25
Specific Gravity	1.33
Rockwell Hardness, R Scale	109
Shore "D" Hardness	81
Heat Distortion Temperature, °F @ 264 psi	135
Tensile Strength, psi	7300
Modulus of Elasticity in Flexure, psi	4.4 x 10 ⁵
Flexural Strength, psi	13,400
Light Transmission % _{cv} 33.5 mils @ 400 μ	70
Light Transmission % 33.5 mils @ 700 μ	81
Izod Impact, ft.-lbs. /in. notch	0.95
Flammability	self-extinguishing



The Excelon System is available through:



Thermoplastic Processes, Inc.

1268 Valley Road, P.O. Box 188
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