

4000 Series & 8000 Series of PVC Pipe, Tube & Fittings
Rigid • Flexible • Photo Black

The clear source for complete visibility, affordability, versatility.

EXCELON by Thermo Thermoplastic Processes has been making its mark in the plastic marketplace for over 60 years. A worldwide leader with a reputation for innovation, quality and value, our mission has always been to provide a wide range of products that meet and exceed our customer's expectations. We offer one of the industry's most comprehensive catalogs, and we combine that with an unmatched level of support and service.

Excelon: Ensuring Excellence from the start.

When visual monitoring is critical, you need a system of adaptable and cost-effective pipe and fittings. Excelon is synonymous with the highest level of purity, performance and reliability.

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

- superior corrosion resistance
- non-contaminating
- smooth surface for unrestricted flow
- extensive range of chemical resistance
- lower sediment accumulation
- resists bacterial and biological activity
- non-conductive
- · strong pressure bearing capability
- fast and reliable solvent welded fittings
- conveniently boxed and packaged
- · ease of handling and installation

Whatever your pipe and fitting needs, Excelon provides new and unique possibilities for system integrations and configurations. We combine rigid and flexible technology to bring you the broadest and most extensive clear piping product mix in the industry. Expanded design options provide less friction and restriction in moving product through, and optimum clarity offers all-around visibility. And, Excelon offers a lower overall installed cost than glass, acrylic or other transparent solutions.

Excelon: Ensuring Excellence for every job.

Name your system - solid, powder, liquid, semi-pneumatic, pneumatic - we've got you covered.

Name your application - clean rooms, chemical processing, pharmaceuticals, waste treatment, duel containment, laboratories, food processing, photo finishing - we've got you covered, again.

Excelon conforms to critical industry standards, having been approved by FDA, USDA, USP Class VI, NSF 51, 3A and UL.

Excelon is manufactured in the United States, in IPS sizes to Schedule 40 & 80 dimensions for unmatched performance. This provides sufficient wall thickness for most pressure applications without jeopardizing clarity.

Excelon maintains its integrity in harsh environments, making it suitable for both positive and negative pressure applications.

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

R-4000/R-8000 - Clear Rigid Schedule 40/80 PVC Pipe

F-4000/F-8000 - Clear Flexible Schedule 40/80 PVC Pipe

PB-4000/PB-8000 - Photo Black, UV resistant, Rigid Schedule 40/80 PVC Pipe

R-2000 - Clear Rigid PVCTubing

F-1000 - Clear Flexible PVC Fittings



Optimum clarity, impact resistant, cost-effective superior PVC pipe — that's Excelon R-4000 Schedule 40 and R-8000 Schedule 80. With a full line of sizes ranging from 1/4" – 6" for R-4000, and 1/4" – 4" for R-8000, these pipes offer unique physical properties. Manufactured by low stress extrusion, they can improve system integrity, help maintain both safety and environmental regulatory standards, provide visual monitoring, and keep costs down and production rates up. For easy connectivity, a complete line of rigid fittings and 90° rigid sweeps are available. And pipes and fittings can be joined together in simple steps using cleaner, primer and cement. Adapter fittings can be used to incorporate R-4000 and/or R-8000 into an existing system.

R-4000: Clear Rigid Schedule 40 PVC Pipe R-8000: Clear Rigid Schedule 80 PVC Pipe

Excelon: Ensuring Excellence in dual containment systems.

The superior clarity of the Excelon System makes it especially beneficial in dual or triple containment systems. Dual containment systems are engineered to protect our eco-system from the dangers of exposed aggressive chemicals. 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.

Even non-corrosive materials may pose potential problems when there are spills or leaks from primary pipes. Primary pipe failure can be detected and corrected asap, saving time and money. Electrical wiring can be protected from leaks and shorts can be visually detected by smoky residue. And, when hard-to-clean materials are being processed, i.e., syrups, oils and dyes, Excelon R-4000 and R-8000 will prove invaluable in preventing damage to the equipment and production facility.

Excelon R-4000 - Clear Rigid Schedule 40 PVC Pipe

NOMINAL PIPE SIZE	AVG.	OD	MIN. WALL	LBS./FT.	MAX. WP PSI*	STOCK LGTHS.	LGTHS. /CTN.	ITEM NO.
1/4"	0.344	0.344 0.540		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

Excelon R-8000 - Clear Rigid Schedule 80 PVC 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 50	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	

Excelon F-4000 - Clear Flexible Schedule 40 PVC 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

Excelon F-8000 - Clear Flexible Schedule 80 PVC Pipe

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



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 Thin Wall Clear PVC Pipe

When your application does not require a thick-walled pipe, Excelon R-4000Thin Wall provides a cost-effective solution. Available in sizes ranging from 2"-4".

R-2000 Clear Rigid PVC Tubing

Perfect for most food contact applications, R-2000 is approved by the FDA, and provides total visual control. Easily installed with cement or clamps, this adaptable system minimizes shutdowns by allowing rapid assembly for emergency bypass set-ups.

Excelon: Ensuring Excellence with unlimited options.

F-1000 Clear Flexible PVC Fittings

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 0° to 180°.

PB-4000/8000 Photo Black PVC Pipe

If you need to protect light sensitive material, Excelon PB-4000 and PB-8000 are your best bet. Opaque and UV resistant, they allow no light to pass through. Available in sizes ranging from 1/4" - 2".

Excelon Schedule 40 & Schedule 80 CLEAR pipe is manufactured from a Type I, Grade I Polyvinyl Chloride (PVC) compound with a Cell Classification of 12454 per ASTM D1784. The pipe shall be manufactured in strict compliance to ASTM D1785, consistently meeting and/or exceeding the applicable Quality Assurance test requirements of this standard with regard to material, dimensions, workmanship, burst pressure, flattening and extrusion quality. All Excelon pipe is manufactured by Thermoplastic Processes in the USA.

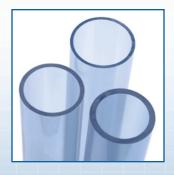
Flexible Sweeps

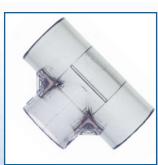
You need a clear PVC piping system that can handle turns and angles, and we've got it. Excelon F-4000 Flexible Schedule 40 and F-8000 Flexible Schedule 80, along with our Flexible Sweeps, give you adaptability and flexibility in previously challenging situations. Now you can say goodbye to misalignment, back flow and back pressure. Say goodbye to heat bending, which is not only time consuming, but can induce excessive pressure in your pipe if not done at the proper temperature.

Excelon: Ensuring Excellence with flexible solutions.

Smoother turns and more flexibility have many benefits for any pipe system:

- creates less friction in fluid handling
- decreases back pressure
- fewer restrictions
- allows for serpentine installations
- works with fluid, powder and solid
- expansion joints
- prevents fluid from heating up
- goosenecks
- works with standard pinch valves
- · decreases installation time
- provides a simpler CIP







Excelon: Ensuring Excellence for...

Clean Rooms

Dual Containment

Sight Glass

Chemical Processing

Pharmaceuticals

Waste Treatment

Laboratories

Food Processing

Photo Finishing

Electroplating

Medical/Hospital Use

Displays/Exhibits

Cosmetics

Environmental **Applications**

Fish Hatcheries

Visual Test Equipment

Beverage Processing

Aquaculture

The clear source for complete visibility, affordability, versatility



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