

Manufacturer/Supplier Information

Product	Crosslinked Polyethylene (PEX)
Trade name	PexCellent 5-layer Pipe
Manufacturer/Supplier	Rettig USA d.b.a. Myson

Material Description, Application, Use & Reference Standards or Listings

Material	Crosslinked Polyethylene pipe with integral Oxygen Barrier and protective layer
Application or Use	Radiant heating & cooling, hydronic distribution, thermal energy transport, geothermal
Reference Standards or listings	ASTM F876, NSF-14, NSF-RFH, CSA B137.5, DIN 4726

Product Data (model number, size, physical data, and applicable performance data)

Description	Package Quantity	Item Number	Weight (lbs.)
3/8" Oxygen Barrier PEX – 100 ft coil	100'	PEXC38-100	4.6
3/8" Oxygen Barrier PEX – 300 ft coil	300'	PEXC38-300	13.9
3/8" Oxygen Barrier PEX – 500 ft coil	500'	PEXC38-500	23.1
1/2" Oxygen Barrier PEX – 100 ft coil	100'	PEXC12-100	5.8
1/2" Oxygen Barrier PEX – 300 ft coil	300'	PEXC12-300	17.2
1/2" Oxygen Barrier PEX – 500 ft coil	500'	PEXC12-500	28.9
1/2" Oxygen Barrier PEX – 1000 ft Coil	1000'	PEXC12-1000	57.9
1/2" Oxygen Barrier PEX – 20 ft stick	20'	PEXC12-20	1.2
5/8" Oxygen Barrier PEX – 100 ft coil	100'	PEXC58-100	10.2
5/8" Oxygen Barrier PEX – 300 ft coil	300'	PEXC58-300	31.9
5/8" Oxygen Barrier PEX – 500 ft coil	500'	PEXC58-500	53.8
5/8" Oxygen Barrier PEX – 1000 ft Coil	1000'	PEXC58-1000	107.9
5/8" Oxygen Barrier PEX – 20 ft stick	20'	PEXC58-20	2.0
3/4" Oxygen Barrier PEX – 100 ft coil	100'	PEXC34-100	10.9
3/4" Oxygen Barrier PEX – 300 ft coil	300'	PEXC34-300	32.4
3/4" Oxygen Barrier PEX – 500 ft coil	500'	PEXC34-500	54.3
3/4" Oxygen Barrier PEX – 1000 ft Coil	1000'	PEXC34-1000	108.5
3/4" Oxygen Barrier PEX – 20 ft stick	20'	PEXC34-20	2.2
1" Oxygen Barrier PEX – 100 ft coil	100'	PEXC1-100	17.5
1" Oxygen Barrier PEX – 300 ft coil	300'	PEXC1-300	52.4
1" Oxygen Barrier PEX – 500 ft coil	500'	PEXC1-500	87.5
1" Oxygen Barrier PEX – 1000 ft Coil	1000'	PEXC1-1000	175.0
1" Oxygen Barrier PEX – 20 ft stick	20'	PEXC1-20	3.5

Size	General Dimensions				Minimum Burst Pressure	
	Outside Diameter		Wall Thickness		73°F (23°C)	180°F (82°C)
	inches		inches		psi	
3/8"	0.500	±0.003	0.070	+0.010	620	275
1/2"	0.625	±0.004	0.070	+0.010	480	215
5/8"	0.750	±0.004	0.083	+0.010	475	210
3/4"	0.875	±0.004	0.097	+0.010	475	210
1"	1.125	±0.005	0.125	+0.010	475	210

Technical Data				
Parameter	Test Point	Value	Units	Reference Standard
Degree of crosslinking		≥65	%	ASTM D2765
Material density	73.4°F	≈0.94	g/cm ³	ASTM D792
Impact strength	73.4°F	No failure	psi	ASTM D638
Tensile strength	73.4°F	≈3.9	psi	ASTM D638
Stress crack resistance		No failure		ASTM D1693
Coef of linear expansion	32 – 158°F	1.5 x 10 ⁻⁴	1/°F	ASTM D696
Thermal conductivity		2.3	Btu/hr-ft-°F	ASTM D177
Min. bend radius		≥5 x OD	mm	DIN 4726
Oxygen tightness	104°F / 176°F	≤0.32 / ≤3.6	Mg/m ² -day	DIN 4726