

AlroPex

AlroPex pipes have been used safely and reliably for over 50 years worldwide. They designed for a **life span of more than 50 years, temperatures up to 200°F and operating pressures 80 to 100 psi.**

- 200 degrees F (93 degrees C) at 80 psi (551 kPa)
- 180 degrees F (82 degrees C) at 100 psi (689 kPa)
- 73.4 degrees F (23 degrees C) at 160 psi (1102 kPa)

AlroPex pipes are durable, flexible and completely reliable for plumbing and heating applications.

STANDARDS

- **ASTM F876/877**
- **CSA B137.5**
- **NSF 14**
- **NSF/ANSI 61**
- **NSF 372**
- **UL 1821** for sprinkler system.
- **PEX 5306** - Highest chlorine resistance.
- **ASTM F2657** UV protection.
- Pipes with oxygen barrier layer meet the requirements of **MPA NRW**.



Property	ASTM Test Method	Typical Values	
		English Unit	SI Units
Density	D 792	-	0.946 g/cc
Melt Index *1 (190°C/2.16 kg)	D 1238	-	0.7g/10min
Flexural modulus*2	D 790	150,000 psi	830 MPa
Tensile Strength @ Yield (2 in/min)	D 638	2,900 psi	20 Mpa
Coefficient of Linear Thermal Expansion @ 68° F	D 696	9.2x10-5/in/°F	15x10-4/°C
Hydrostatic Design Basis @ 73°F (23°C)	D 2837	1,250 psi	8.6 MPa
Hydrostatic Design Basis @ 180°F (82°C)	D 2837	800 psi	5.5 MPa
Vicat Softening Point	D 1525	255° F	124° C
Thermal Conductivity	D 177	"2.86 Btu·in/(ft ² ·hr·°F) "	0.41 W/(m·°K)

*1 Before Cross- linking - *2 73°F

RESEARCH RESULTS

Pipe	Material	Failure time 221°F (105°C)	Failure time 239°F (115°C)
Mono layer	PE-Xb	2 899 Ongoing	3 056 Brittle
Mono layer	PE-Xa	1 384 Brittle	492 Brittle
Mono layer	PE-Xc	2 899 Ongoing	2 435 Brittle
Mono layer	PE-RT	1 866 Brittle	606 Brittle

Results are given as time to burst at 221°F (105°C) and 221°F (239°C) as well.

Physical x-linking (PE-Xb, PE-Xc) indicate improved ClO₂ resistance.

Pipe grade PE-Xb and Pe-Xc show significantly better results than Pipe grade PE-Xa and PE-RT.