

AquaHeat Pentagol PEX-C Heating Pipe

JOB		REPRESENTATIVE	
ENGINEER		ORDER #	DATE
CONTRACTOR		SUBMITTED BY	DATE
PAGE #		APPROVED BY	DATE

Qty/Length	Part #	Pipe OD	SDR	Comments
			9	
			9	

Black PEX-C Heating Pipe with O₂ Diffusion Barrier and UV outer layer

The AquaHeat Pex-C pipes are produced from special HMW-HDPE resins. The crosslinking is performed in a state of the art E-beam accelerator after the production process, resulting in irreversible cross-links between adjacent P.E. chains. The crosslinking process renders the pipe improved mechanical process such as; resistance to corrosion and pressure at high temperature, exceptional high abrasion and superb chemical resistance, and excellent longevity at high temperatures. Product consists of inner pipe, oxygen diffusion barrier and black UV layer separated by two adhesive layers. The five layer structure prevents oxygen from entering the heating system through the pipe wall and provides full scratch and moisture protection. Covered by a thirty year manufacturers warranty.



Technical Data	Value	Unit	Test Standard
Density	945	kg/m ³	ASTM F-876
Impact Strength (at 20°C) (at 100°C)	No Failure No Failure	KJ/m ² KJ/m ²	DIN 53453
Elongation at break (at 20°C) (at 100°C)	350-550 500-700	%	DIN 53455
Tensile Strength (at 20°) (at 100°C)	23-26 9-13	N/mm ² N/mm ²	DIN 53455
Max. Op. Temperature	203°F @ 90 PSI (95°C @ 6 bar)		
Pressure Tested	290 PSI (20bar)		

Manufacturing Standards	
ASTM	F-876/F877
ASTM	E-84
CSA	B137.5/LM101713
DIN	4726/9
IAPMO	C
ICBO	ES ER-5258
NSF	61 / RFH / 14

Description	Nominal Size	Average OD	Minum Wall Thickness	Weight lbs/ft	Capacity Gal/ft	Bend Radius
95312 Pentagol Black PEX-C with O ₂ Diffusion Barrier	3/8"	0.500	0.070"	0.05	0.0050	2.50"
95112 Pentagol Black PEX-C with O ₂ Diffusion Barrier	3/8"	0.500	0.070"	0.05	0.0050	2.50"
95305 Pentagol Black PEX-C with O ₂ Diffusion Barrier	1/2"	0.625	0.070"	0.06	0.0098	3.25"
95105 Pentagol Black PEX-C with O ₂ Diffusion Barrier	1/2"	0.625	0.070"	0.06	0.0098	3.25"
95219 Pentagol Black PEX-C with O ₂ Diffusion Barrier	5/8"	0.725	0.083"	0.08	0.0134	3.75"
95419 Pentagol Black PEX-C with O ₂ Diffusion Barrier	5/8"	0.725	0.083"	0.08	0.0134	3.75"
95119 Pentagol Black PEX-C with O ₂ Diffusion Barrier	5/8"	0.725	0.083"	0.08	0.0134	3.75"
95202 Pentagol Black PEX-C with O ₂ Diffusion Barrier	3/4"	0.875	0.097"	0.10	0.0189	4.50"
95102 Pentagol Black PEX-C with O ₂ Diffusion Barrier	3/4"	0.875	0.097"	0.10	0.0189	4.50"
95322 Pentagol Black PEX-C with O ₂ Diffusion Barrier	3/4"	0.875	0.097"	0.10	0.0189	4.50"
95522 Pentagol Black PEX-C with O ₂ Diffusion Barrier	3/4"	0.875	0.097"	0.10	0.0189	4.50"
95122 Pentagol Black PEX-C with O ₂ Diffusion Barrier	3/4"	0.875	0.097"	0.10	0.0189	4.50"
95228 Pentagol Black PEX-C with O ₂ Diffusion Barrier	1"	1.125	0.125"	0.17	0.0316	5.75"
95128 Pentagol Black PEX-C with O ₂ Diffusion Barrier	1"	1.125	0.125"	0.17	0.0316	5.75"
95328 Pentagol Black PEX-C with O ₂ Diffusion Barrier	1"	1.125	0.125"	0.17	0.0316	5.75"