Technical Specification INSTANTOR PERT-EVOH PIPE



Product Code:	UFPERT101, UFPERT102, UFPERT103, UFPERT104, UFPERT105, UFPERT201, UFPERT202, UFPERT203, UFPERT204, UFPERT205	
Description:	Instantor® PERT-EVOH Type II pipes deliver safe, performance up to maximum design temperature of 95° with short-term peaks and an overload temperature of 110°C—fully meeting the highest temperature standards within EN ISO 22391. Engineered for long-life performance, the Instantor PERT-EVOH system is certified to operate safely across all major application classes—including Class 1, 2, 4 and 5—making it suitable for domestic hot water, underfloor heating and high-temperature radiator systems. Independently tested.	
Application:	Underfloor Heating Systems (UFH) to EN1264. Application classes: 1/8Bar, 2/8Bar, 4/8Bar, 5/6Bar per EN ISO 22391.	
Connection type(s):	Fittings designed for EN ISO22391 pipes.	
Size/Range:	UFPERT101 12MM X 50M UFPERT102 12MM X 80M UFPERT103 12MM X 150M UFPERT104 12MM X 300M UFPERT105 12MM X 500M	UFPERT201 16MM X 80M UFPERT202 16MM X 150M UFPERT203 16MM X 200M UFPERT204 16MM X 300M UFPERT205 16MM X 500M
Press Profile:	Pipe N/A.	
Test Pressure: (PT)	1.5x MOP/MDP EN12828/EN14336/EN1264.	
Application Classes Temperature/Pressure Per ISO 22391-1:2021	•Class 1 Hot Water 60°C at 8 Bar. •Class 2 Hot Water 70°C at 8 Bar. •Class 4 UFH 60/40/20°C at 8 Bar. •Class 5 High Temperature Radiators 80/60/20°C at 6 Bar.	
Pipe roughness:	0.0007mm.	
Thermal conductivity:	Pipe - 0.38 w/m.k.	
Thermal expansion:	0.018mm/m.k.	
Colour:	Translucent - White	
Minimum bend radius:	5x diameter.	
Oxygen permeability:	<0.1 mg/l	
Package Quantity:	See brochure/Cat.	
Material Specification:	PERT with EVOH layer to prevent oxygen diffusion	
Manufactured to:	ISO9001:2015, ISO14001:2015, EN ISO 22391.	

Do not drag the pipes along the ground.
PERT-EVOH is not suitable for direct connections to High heat sources such as, gas/oil fired boilers, Metallic tube must be used for 1m.
PERT-EVOH is not suitable for primary solar lines, or solid fuel/multi fuel stoves/burners.

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Unit of Measurement		UFPERT101	UFPERT102	UFPERT103	UFPERT104	UFPERT105	UFPERT201	UFPERT202	UFPERT203	UFPERT204	UFPERT205
Outer Diameter	Mm	12	12	12	12	12	16	16	16	16	16
Inner Diameter	Mm	9.4	9.4	9.4	9.4	9.4	12	12	12	12	12
Weight	Kg/m	0.041	0.041	0.041	0.041	0.041	0.089	0.089	0.089	0.089	0.089
Wall thickness	Mm	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.0	2.0	2.0
Coil length	M	50	80	150	300	500	80	150	200	300	500
Volume of water	L/m	0.0694	0.0694	0.0694	0.0694	0.0694	0.113	0.113	0.113	0.113	0.113
Internal Roughness	µm	7	7	7	7	7	7	7	7	7	7
Thermal conductivity	W/m.k	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
Coefficient of expansion	Mm/m.k	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
Oxygen permeability	Mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Colour	-	Translucent to White									
Field of Application	-	UFH to EN1264									
Fluid	-	Potable Water, Water/Glycol									
Max Peak temperature	°C	95°C									
Max operating pressure 95°C	Bar	6 Bar									
Max operating pressure 20°C	Bar	10 Bar									
Storage	-	Avoid long exposure to direct sunlight (UV) Storge is a dry , secure environment.									
Minimum bend radius	-	5x diameter									
Fire classification	Euroclass	PERT PIPE - NORMALLY FLAMMIBLE									

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QUALITY ISO 9001:2015 NSAI Certified
ENVIRONMENT ISO 14001:2015 NSAI Certified