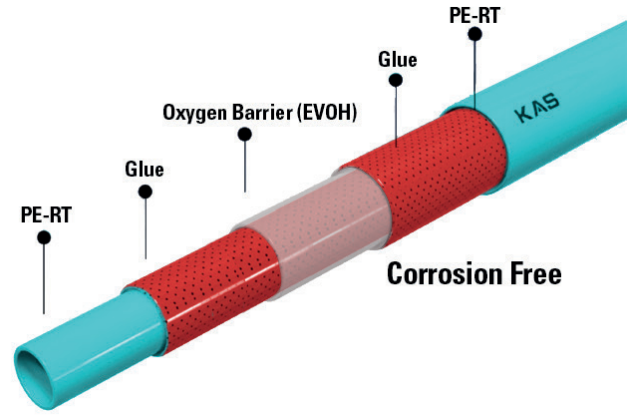


# PE-RT Pipe 5 Layer

# KAS®

TECHNICAL DATA SHEET	80.50.016-400
Product Name	Pe-Rt Pipe
Dimensions	16x2mm-(400 meter)
Standard	EN ISO 22391-2
Raw Material Type	Type - 2
Oxygen Barrier and Number of Layer	Oxygen Barrier – 5 Layers
Raw Material Density (DIN 53497)	0,941 g/cm3
Flexibility (DIN 53457)	600N/mm2
Minimum Bending Diameter	190 mm
Heat Conduction Coefficient	0,40W/mK
Reaction to Fire (EN 13501-1)	E (Normal Flammable)
Maximum Test-Operating Temperature	95°C
Maximum Operating Temperature	70°C
Maximum Operating Pressure	6 bar
Thermal Expansion Coefficient (40°C)	0.00017 1/°K
Surface Roughness	0,000446 mm
Purpose of use	In underfloor heating systems, by spreading its energy equally across the floor, it allows the hot water coming from the heat source to warm the space in which it is placed.



## Pressure Strength Table

Safety Factor = 1,5			Safety Factor = 1,5		
Year	Temperature	16x2mm PE-RT Pipe Pressure (bar)	Year	Temperature	16x2mm PE-RT Pipe Pressure (bar)
1	20	18,6	1	60	12
5	20	18,2	5	60	11,7
10	20	18,1	10	60	11,5
25	20	17,9	25	60	11,4
50	20	16,9	50	60	11,2
1	30	16,6	1	70	10,3
5	30	16,5	5	70	10,1
10	30	16,3	10	70	9,9
25	30	16,1	25	70	9,8
50	30	15,3	50	70	9,6
1	40	15,0	1	80	8,8
5	40	14,8	5	80	8,5
10	40	14,6	10	80	8,4
25	40	14,5	25	80	8,2
50	40	13,6	1	95	6,5
1	50	13,3	5	95	6,3
5	50	13,2	10	95	6,2
10	50	13,0			
25	50	12,9			
50	50				

