

TECHNICAL BULLETIN

TS11

R-VALUES

The table below provides R-values for K-Flex USA elastomeric products:

Application (Pipe Size)	Insulation ID Nominal (in)	R-Values					
		3/8" Wall	1/2" Wall	3/4" Wall	1" Wall	1-1/2" Wall	2" Wall
1/8 CTS	1/4"	2.9	4	6.1	9.6	16.5	23
1/4" CTS, 1/8" IPS	3/8"	2.7	3.6	5.5	8.6	14.8	20.7
3/8" CTS, 1/4" IPS	1/2"	2.6	3.4	5.4	8.0	13.7	19.1
1/2" CTS, 3/8" IPS	5/8"	2.5	3.3	5.5	7.6	13.0	18.1
5/8" CTS, 1/2" IPS	3/4"	2.4	3.1	5.4	7.6	12.2	17.0
3/4" CTS	7/8"	2.3	3.3	5.5	7.3	11.7	16.3
1" CTS	1-1/8"	2.2	3.1	5.4	7.2	10.9	16.0
1-1/4" CTS	1-3/8"	2.2	3.2	5.3	6.8	10.4	15.1
1-1/2" CTS, 1-1/4" IPS	1-5/8"	2.4	3.1	5.1	6.6	9.9	14.8
1-1/2" IPS	2"	2.0	2.7	4.5	5.8	9.0	13.5
2" CTS	2-1/8"	2.4	3.0	4.8	6.2	9.3	13.8
2" IPS	2-3/8"	2.3	3.0	4.8	6.1	9.1	13.4
2-1/2" CTS	2-5/8"	2.3	2.9	4.7	6.0	8.9	13.1
2-1/2" IPS	2-7/8"	2.3	2.9	4.6	5.8	8.7	12.8
3" CTS	3-1/8"	2.3	2.9	4.6	5.8	8.6	12.6
3" IPS	3-1/2"	2.3	3.2	4.6	5.8	8.5	12.3
3-1/2" CTS	3-5/8"	2.3	3.2	4.5	5.7	8.4	12.2
4" CTS	4-1/8"	2.3	3.1	4.7	5.6	8.2	11.9
4" IPS	4-1/2"	2.3	3.1	4.6	5.5	7.9	11.6
5" IPS	5-5/8"	—	3.0	4.5	5.7	7.6	11.1
6" IPS	6-5/8"	—	3.0	4.4	5.5	7.4	10.8
8" IPS	8-5/8"	—	3.0	4.3	5.4	7.3	10.3

Engineering Notes:

1. CTS (Copper Tube Size), IPS (Iron Pipe Size)
2. R-values calculated using a k-factor of 0.2575 Btu-in/hr-ft²-°F (0.25 plus 3% test error allowance @ 75°F, 24°C mean temp.)



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