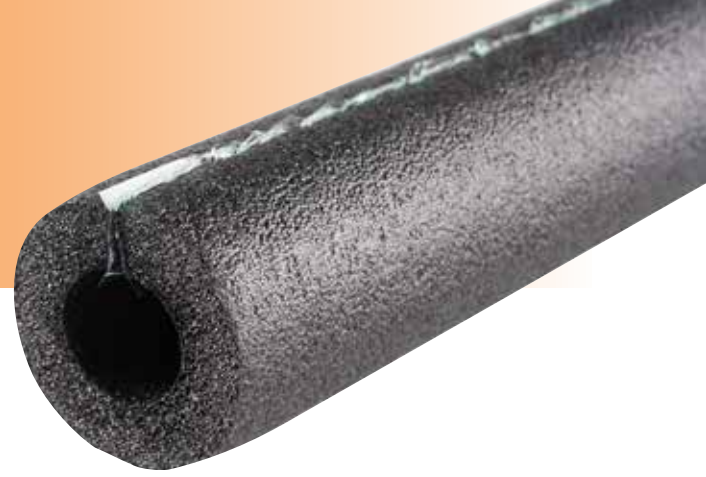


# IMCOLOCK®

Tubular Foam Insulation



Imcolock® premium quality closed-cell polyethylene foam insulation is used in residential, commercial and industrial projects to prevent heat loss and protect pipes from freezing. Imcolock has an integrated self-sealing system that makes it quick and easy to install.

## APPLICATIONS

Imcolock is used to retard heat gain and prevent condensation or frost formation on cold water plumbing, chilled-water, large diameter piping, tanks and vessels. Imcolock also retards heat loss on hot water plumbing. It can also be used for both indoor and outdoor applications, including underground burial. It is available in wall thicknesses of 3/8", 1/2", 3/4" and 1", in sizes ranging from 3/8" CTS to 4" IPS.

Imcolock has a low thermal conductivity and very low water vapor transmission rate. This low density product demonstrates excellent thermal, physical and chemical resistant properties and has a broad service temperature range between -330°F and 210°F (-201°C and 99°C). It can be installed in commercial, industrial and residential insulation projects. It is acceptable for use with heat tracing/heat tape.

## RESISTANCE TO MOISTURE

The closed-cell structure and unique formulation of Imcolock effectively retards the flow of moisture vapor, and is considered a low transmittance vapor retarder. For most indoor applications, Imcolock needs no additional protection. Additional vapor barrier protection may be necessary for Imcolock when installed on low temperature surfaces that are exposed to continuous high humidity.

## INSTALLATION

Imcolock is pre-slit with a factory applied pressure sensitive adhesive (PSA) to both seam surfaces and has a release liner for easy installation. All butt joints should be properly sealed. Imcolock is easy to cut with a knife and can bend around P-traps and fittings.

Please refer to our website for frequently asked questions on proper usage, applications and installation recommendations.

### Features

- CFC/HCFC Free
- Non-porous
- Low VOCs
- Halogen Free
- Fiber Free
- Resistant to Mold Growth
- Made with up to 100% recycled content
- Made in USA

### Specification Compliance

- ASTM C 1427, Type 1, Grade 1
- ASTM E 84 1" 25/50
- Specification Compliance ASTM C 1427, NFPA 90 A/B / Acceptable for use in duct/plenum applications
- Dade Co., Fl., Product Control Approved, Acceptance 95-1215.08
- New York City OTCR #13-09 USDA Requirements
- Sound transmission co-efficient = 11 at 1" per ASTM E90
- City of Los Angeles, Gen. Approval, Research Report RR 8316
- Greenguard Gold Certified (formerly children & schools)
- Approved as being eligible to contribute points toward a building under the National Green Building Standard



Home Innovation  
NGBS GREEN CERTIFIED™

## PHYSICAL PROPERTIES

Physical Properties	Testing Parameters	Imcolock Insulation	Test Methods
Thermal Conductivity (K) BTU -in/hr - Ft <sup>2</sup> - °F (W/mK)	90°F (32°C) Mean Temp	.255 (.037)	ASTM C 177/C 518
	75°F (24°C) Mean Temp	.250 (.036)	ASTM C 177/C 518
	50°F (10°C) Mean Temp	.245 (.035)	ASTM C 177/C 518
Operating Temperature Range			
Flexible to -100°F (-73°C)	Upper Range	210°F (99°C)	
	Lower Range	-330°F (-201°C)	
Water Vapor Permeability Dry Cup. Perm-In		0.0	ASTM E 96
Ozone Resistance		Pass	ASTM D 1171
Chemical/ Solvent Resistance		Good	
Mildew Resistance/Air Erosion		Pass	UL 181

## IMCOLOCK® “R” VALUES

Pipe O.D. or Nominal Insulation I.D.		R Value 3/8" (10 mm) Wall	R Value 1/2" (13 mm) Wall	R Value 3/4" (19 mm) Wall	R Value 1" (25 mm) Wall
3/8"	10 mm	3.1	4.2	6.6	9.3
1/2"	13 mm	2.8	3.7	6.0	8.5
5/8"	16 mm	2.8	3.5	5.6	7.9
3/4"	19 mm	2.6	3.4	5.4	7.6
7/8"	22 mm	2.5	3.3	5.1	7.2
1-1/8"	29 mm	2.4	3.1	4.8	6.8
1-3/8"	35 mm	2.3	3.2	4.9	6.8
1-5/8"	41 mm	2.3	2.9	4.5	6.2
2"	50 mm	2.0	2.6	4.1	5.7
2-1/8"	54 mm	2.3	2.9	4.3	6.0
2-3/8"	62 mm	2.0	2.6	4.0	5.5
2-5/8"	67 mm	2.3	2.8	4.2	5.7
2-7/8"	72 mm	2.0	2.5	3.8	5.3
3-1/8"	79 mm	2.3	2.8	4.1	5.5
3-1/2"	89 mm	2.0	2.5	3.7	5.1
3-5/8"	92 mm	2.8	2.8	4.0	5.5
4-1/8"	105 mm	2.8	2.8	4.0	5.4
4-1/2"	115 mm	1.9	2.4	3.6	4.9