

2.2.5.2 Multilayer Mixal® insulated pipe features

Mixal® pipes that are covered in the factory with thermal insulating sleeves are suitable in all applications that require a certain degree of insulation against condensation and against energy loss combined with an extremely practical and economic installation.

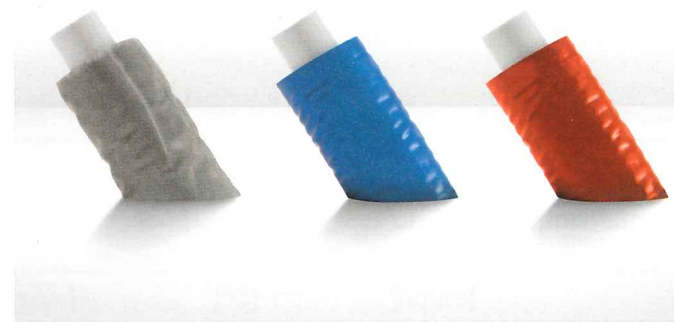


Table 2.14 Multilayer Mixal® insulated pipe features.

Pipe	Insulating layer thickness	External diameter of the insulated pipe	Weight	Thermal conductivity of the insulated pipe
	[mm]	[mm]	[g/m]	[W/m·K]
14x2	6	26	97	0.059
16x2	6	28	113	0.058
16x2	10	36	125	0.052
18x2	6	30	129	0.057
20x2	6	32	150	0.056
20x2	10	40	163	0.051
20x2.25	6	32	161	0.058
25x2.5	6	37	233	0.059
26x3	6	38	266	0.063
26x3	10	46	282	0.056
32x3	10	52	370	0.055

The features of the material used for the production of the insulating sheath are indicated in the table.

Table 2.15 Features of the material used for the production of the insulating sheath.

Features	Unit	Value
Material	-	High density closed cell polyethylene
Flame-retardant	-	B _L -s1,d0
Density	[kg/m ³]	33
Thermal conductivity	[W/m·K]	0.0397
Traction resistance	[N/mm ²]	>0.18
Ultimate elongation	[%]	>80
Steam permeability	[mg/Pa·s·m]	<0.15

2.2.5.3 Features of the multilayer Mixal® pipe with corrugated protective sheath

Mixal® pipes that are covered in the factory with a protective corrugated insulating sleeve are generally used in domestic water supply systems that require protection or the possibility of removing or replacing the pipes.

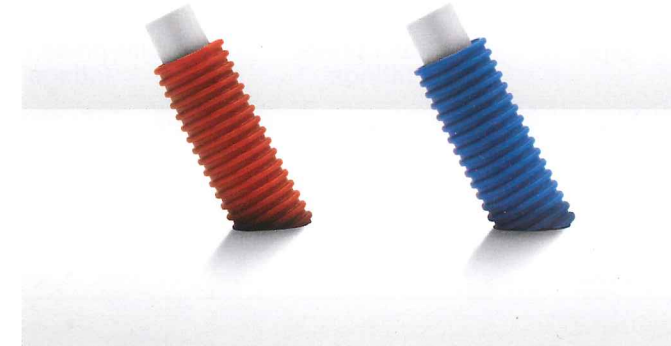


Table 2.16 Features of the multilayer Mixal® pipe with corrugated protective sheath.

Pipe	Sheath thickness	External diameter sheathed pipe	Weight	Crushing
	[mm]	[mm]	[g/m]	[N/m]
14x2	0.75	24.5	139	320
16x2	0.85	26.5	164	320
18x2	0.95	28.5	189	320
20x2	1.05	30.5	219	320

The features of the material used for the production of the corrugated protective sheath are indicated in the table.

Table 2.17 Features of the corrugated protective sheath.

Features	Unit	Value
Material	-	High density polyethylene
Flame retardant	-	No
Density	[kg/m ³]	961
Thermal conductivity	[W/m·K]	0.38
Traction resistance	[N/mm ²]	> 22
Ultimate elongation	[%]	> 350
Steam permeability	-	> 100,000