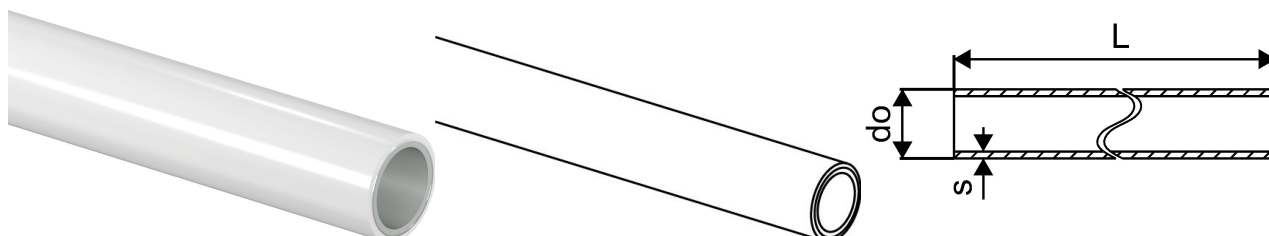


Uponor MLC white S 50x4,5 5m

1013449

- bar
- High dimensional stability, low expansion rates
- Increased flexibility
- 100% oxygen barrier



About Uponor MLC white S

Specification

Uponor Uni Pipe Multilayer Composite (MLC)

-5 layer composite pipes consist of an aluminium pipe (100% oxygen proof diffusion barrier, diffusion tight exceeding the requirements of DIN 4726), bonded to an inner layer of Polyethylene - Raised Temperature (PE-RT), and an outer layer of white Polyethylene - Raised Temperature (PE-RT). PE-RT/AL/PE-RT

-12, 14, 40-110mm uses an aluminium pipe which is manufactured using a safety overlap welded construction.

-Manufactured to parts 1 & 2 of BS EN ISO 21003-1 2008. Pipes are clearly marked at 1m intervals with full production data, in accordance with the requirements of the standard.

-Sizes 12,14,16, 20, 25 and 32mm can be supplied in flexible 50m coils as standard, or limited sizes in 100, 120, 200 & 500m. More rigid straight lengths of 16, 20, 25, and 32, pipe are available in both 3m or 5m (depending on pipe diameter).

-Are sealed immediately after manufacture with a removable colour coded plug to ensure maximum hygiene as recommended by BS EN 806-5:2012, BS8558:2011 and HTM 04 -01

-Are non-conductive and do not need to be bonded to earth. In new installations which do not use any sections of metal pipes, there is no requirement to bond the pipework to earth. However, it is still necessary to bond all electrical components such as pumps, boilers, heaters and other exposed metallic components of the plumbing and heating system. This pipework itself is not suitable for electrical equipotential bonding of a system

-Should not be directly connected to boilers or heaters, which have a higher constant temperature of 70°C (malfunction temperature 95°C for 100h) for tap water and constant higher temperature of 80°C (malfunction temperature of 100°C for 100h) for heating (please also seek advice from the boiler or heater manufacturer).

-'Pipe-in-Conduit' should be used in solid floors to comply with the Water Regulations (water fittings) 1999. No ducting is necessary and pipes can subsequently be withdrawn and replaced if required. Uponor multi-layer pipes are not affected by standard concrete or screeds.

-Have a very good resistance to many household chemicals. However, in the event accidental contact with chemicals, the pipework should be washed with clean water. Building materials such as standard concrete, mortar or plaster do not affect the pipes. Solvent based cleaning products, tapes, paints, adhesives or sealing compounds must not come into contact with Uponor multilayer pipework, unless approved by Uponor.

-Corrosion Inhibitors - Heating systems should be treated in the normal way to prevent corrosion of metallic components within a heating system. Please refer to Uponor for advice on suitable water treatments for use with Uponor Uni Pipe PLUS pipes.

-Disinfection - Systems intended for use with potable water should be disinfected following installation. Uponor Uni Pipe PLUS pipes can be treated with short-term chemical disinfection in accordance with the standards HSE L8, BS EN 806-4:2010 and the DVGW work sheet W 290/ W 291 and W 557 (A)

Please refer to Uponor for a list of acceptable chemicals.

-Uponor's Uni Pipe pipes MUST NOT be used for the following applications:

---Domestic gas

---Heating Oil

---Compressed Air systems

---Swimming Pool Water

---Fire control systems

---Water from private water supplies must provide a water report for approval.

---Uponor Uni Pipe pipes must not be stored or installed where they are exposed to direct sunlight.

(Please refer to Uponor for approval in applications other than heating, cooling or domestic water supply).

Application

-Tested/Approved according EN ISO 21003 Multilayer piping systems for hot and cold water installations inside buildings.

-Heating systems (high temperature radiators) - where the water temperature does not continuously exceed 80°C, 10 bar (Conditions to application Class 5 - BS EN ISO 21003-1:2008). The maximum short-term malfunction temperature is 100°C for an accumulative 100 hours over the working life of the system. (Heating systems must be installed with room and water temperature controls in accordance with the current Building Regulations Parts L1 (Energy – Dwellings) and L2 (Energy – Non Dwellings) for England and Wales, or an equivalent national standard for Scotland or Republic of Ireland).

-Cold water domestic services: 0°C to 20°C where the water temperature does not exceed 20°C, 16bar.

-Hot water domestic services: 20°C to 70°C where the water temperature does not continuously exceed 70°C, 10 bar (Conditions to application Class 2 - BS EN ISO 21003-1:2008). The maximum short-term malfunction temperature is 95°C for an accumulative 100 hours over the working life of the system.

-Uponor multi-layer pipe can be used for DHW recirculating systems, provided the operating temperatures and pressures do not exceed the maximum conditions detailed under 'Domestic Services'.

-Chilled water: -10°C to 10°C, 10 bar. If risk of damage from freezing, a suitable anti-freeze additive must be used. Any additive must be suitable for use with Polyethylene, PPSU, EPDM and CW625N brass.

Certification

-WRAS: 1903901 - Uponor S-Press PLUS, S-Press PLUS, PPSU, MLC and SAC 16-32mm

-WRAS: 2010907 - Uponor S-Press 12 & 14mm, MLC

-WRAS: 2109108 - S-Press & RS Modular 40-110mm, MLC

-KIWA – UK Water Regulation 4

-Manufacturing is in accordance with the international quality standard ISO 9001 and environmental standard ISO 14001.

-Fire rating are certificated to BS EN 13501-1 Category 'E' and tested to BS EN ISO 11925-2. Building material class B2 in accordance with DIN 4102.

-Pre Insulated (S6 & S10) Insulation & foil fire rating are certificated to BS EN 13501-1 Category ' Class E'

-Pre insulated (S13) Insulation & foil fire rating are certificated to BS EN 13501-1 Category ' Class B1-S1-D0 '

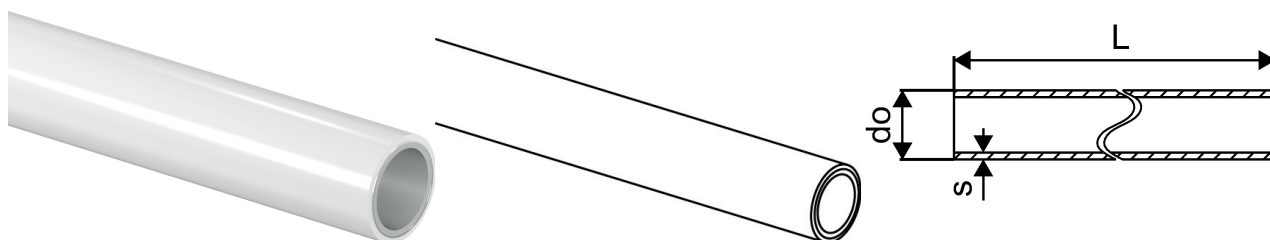
B1 Fire Class = Combustible materials - very limited contribution to fire

S1 Smoke Generation = Emissions absent or very little

D0 fire Generation = No burning droplets

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Technical data

Item no EAN	4021598005587
Item no GTIN	04021598005587
Item no VVS	087306150
RSK no.	1873322
Item no NRF	5071345
Item no LVI	1720108
Item (unit of measurement)	m
Packaging Quantity 1	5
Packaging Quantity 4	20
Packaging Quantity 4	660
Packaging GTIN PL1	06414905256976
Packaging GTIN PL2	06414905256983
Packaging GTIN PL4	06414905256990
Item Unit Length	1000
Item Unit Height	50
Item Unit Weight	0,744
Item Unit Width	50

Technical documents

[Download documents here](#)

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