

POLYMELT UV

UV RESISTANT PIPE SYSTEM FOR OUTDOOR APPLICATION



POLYMELT UV

PP-R WATER PIPING SYSTEM



**The safest most reliable choice
for exposed potable water applications**

POLYMELT UV is the worldwide first audited UV-resistant PP-R system consisting of pipe and fitting, which can be fused together the same way as standard PP-R.

Furthermore, the especially developed material of the POLYMELT UV system, ensures vast UV-resistance.

High quality - Made in Germany.

**UV-RESISTANT
MADE IN GERMANY**

 **POLYMELT**

 Made in Germany

SOLUTION FOR OUTDOOR APPLICATIONS

The POLYMELT UV system consists of the well established POLYMELT UV ML5 fiber pipe and a new range of fittings, made of high grade PP-R. It was especially developed for situations, where the pipe distribution is exposed to UV-radiation. Therefore the POLYMELT UV system is especially suitable for the installation in outdoor environments such as drinking water systems and irrigation systems.



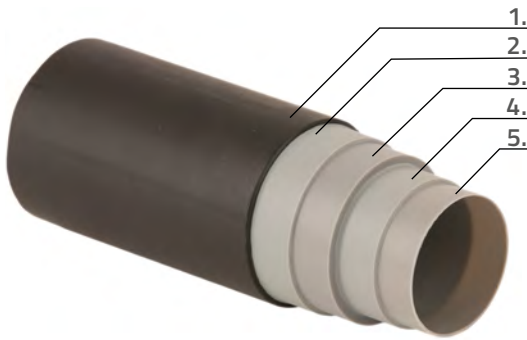
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Product Range

POLYMELT UV System

Material POLYMELT UV ML5 Pipe



1. PP-R UV black
2. PP-R GF
3. PP-R
4. PP-R GF
5. PP-R

Linear expansion coefficient: $a = 0,035 \text{ mm/m K}$

Working pressure

Long Term Stress Behaviour with safety factor 1.25

Temperature °C	Years of operation				
	1	5	10	25	50
	Maximum working pressure in bar				
20 °C	28.5	26.8	26.1	25.2	24.5
30 °C	24.2	22.7	22.1	21.3	20.7
40 °C	20.6	19.2	18.7	18.0	17.4
50 °C	17.4	16.2	15.7	15.1	14.7
60 °C	14.7	13.6	13.2	12.7	12.3
70 °C	12.3	11.7	11.1	9.6	8.1
80 °C	10.3	9.1	7.7	6.2	
95 °C	7.3	4.9	150	150	

Pipe

POLYMELT UV ML5

Fibre-pipe with UV protection layer, SDR 7.4/ S 3.2 for hot and cold water acc. to DIN EN ISO 15874, EN ISO 21003, class 1/8 bar, class 2/6 bar, Color black



A. no.	Outer diameter	Wall thickness	Inner diameter	Water Content	Weight	Packing unit parcel/bar
40322	20	2.8	14.4	0.163	0.149	100 m / 4 m
40323	25	3.5	18.0	0.254	0.236	60 m / 4 m
40324	32	4.4	23.2	0.423	0.385	40 m / 4 m
40325	40	5.5	29.0	0.661	0.584	20 m / 4 m
40326	50	6.9	36.2	1.029	0.916	20 m / 4 m
40327	63	8.6	45.8	1.647	1.474	12 m / 4 m

Fittings

POLYMELT UV
Welding socket



A. no.	Outer Diameter	Packing unit parcel/bar
44002	20	600 / 10
44003	25	400 / 10
44004	32	300 / 10
44005	40	200 / 5
44006	50	100 / 5
44007	63	50 / 1

POLYMELT UV
Welding elbow 90°



A. no.	Outer Diameter	Packing unit parcel/bar
44042	20	500 / 10
44043	25	350 / 10
44044	32	200 / 10
44045	40	100 / 5
44046	50	50 / 5
44047	63	25 / 01

POLYMELT UV
Welding elbow 45°



A. no.	Outer Diameter	Packing unit parcel/bar
44102	20	200 / 10
44103	25	150 / 10
44104	32	100 / 10
44105	40	50 / 5
44106	50	25 / 5
44107	63	12 / 1

POLYMELT UV
Welding tee



A. no.	Outer Diameter	Packing unit parcel/bar
44202	20	400 / 10
44203	25	250 / 10
44204	32	100 / 10
44205	40	40 / 5
44206	50	20 / 5
44207	63	10 / 1

Fittings

POLYMELT UV
Welding tee reduced



A. no.	Outer Diameter	Packing unit parcel/bar
44254	25 × 20 × 25	250 / 10
44273	32 × 20 × 32	120 / 5
44275	32 × 25 × 32	120 / 5
44305	40 × 20 × 40	80 / 5
44307	40 × 25 × 40	80 / 5
44309	40 × 32 × 40	80 / 5
44334	50 × 25 × 50	50 / 5
44336	50 × 32 × 50	50 / 5
44338	50 × 40 × 50	40 / 5
44352	63 × 25 × 63	25 / 1
44354	63 × 32 × 63	25 / 1
44356	63 × 40 × 63	25 / 1
44358	63 × 50 × 63	25 / 1

POLYMELT UV
Welding reducer



A. no.	Outer diameter	Packing unit parcel/bar
44603	25 × 20	300 / 10
44605	32 × 20	250 / 10
44606	32 × 25	200 / 10
44609	40 × 25	400 / 5
44610	40 × 32	300 / 5
44614	50 × 32	250 / 5
44615	50 × 40	150 / 5
44620	63 × 40	100 / 1
44621	63 × 50	75 / 1

POLYMELT UV
Welding adapter male



A. no.	Outer diameter	Packing unit parcel/bar
44156	25 × 1/2"	100 / 10
44157	25 × 3/4"	100 / 10
44159	32 × 1"	50 / 5
44161	40 × 1 1/4"	30 / 5
44163	50 × 1 1/2"	20 / 5
44165	63 × 2"	20 / 1

Audited UV-resistance

The resistance of POLYMELT UV system against UV-radiation was tested by an accredited test laboratory. In planned intervals during the complete process, samples were taken in order to check possible mechanical changes based on a tensile test.

The used irradiation rate is equivalent to more than 10 years in the city of Assuan, Egypt (one of the highest yearly UV-radiations worldwide).

Areas of application

POLYMELT UV system is approved for the contact with potable water and is the best choice for boiler connection on the top to the tapping points - outdoor and indoor.

It can be used as an ideal distribution system for Hot & Cold Water in residential and commercial buildings as well as for irrigation systems.

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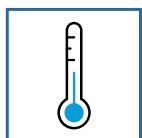
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Advantages

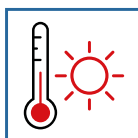
- 10 years UV-resistant guarantee
- fast and easy installation
- corrosion free
- low linear expansion
- increased flow rate
- high stability



The POLYMELT UV piping system is suitable for:



Cold water



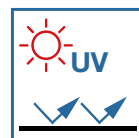
Hot water



Compressed air



Cooling



Solar radiation



Potable water

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