

• • • Made in Germany

**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.** 





# SOLUTION FOR OUTDOOR APPLICATIONS



## POLYMELT UV

## PP-R WATER PIPING SYSTEM

#### **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 = 0,038 mm/m K third party certified: OFI Institute Vienna

#### Working pressure

Long Therm Stress Behaviour with safety factor 1.25

	Years of operation				
Temperature °C	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 hat 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



POLYMELT UV Welding elbow 90°



**POLYMELT UV** Welding elbow 45°



**POLYMELT UV**Welding tee



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

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

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

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



**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 du ring 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 weil as for irrigation systems.

## POLYMELT UV PP-R WATER PIPING SYSTEM

#### **Advantages**

- 10 years UV-resistant guarantee
- corrision free
- increased flow rate

- fast and easy installation
  - low linear expansion
  - high stability



#### The POLYMELT UV piping system is suitable for:













Sun exposi

Potable water

