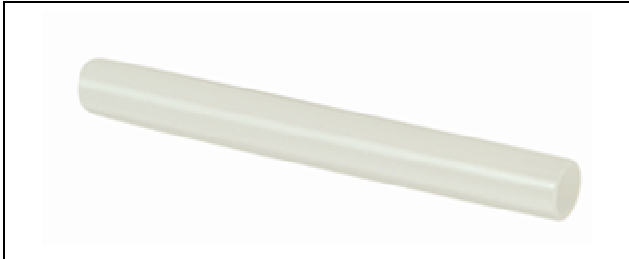


R978 GIACOMINI Pe-RT pipes

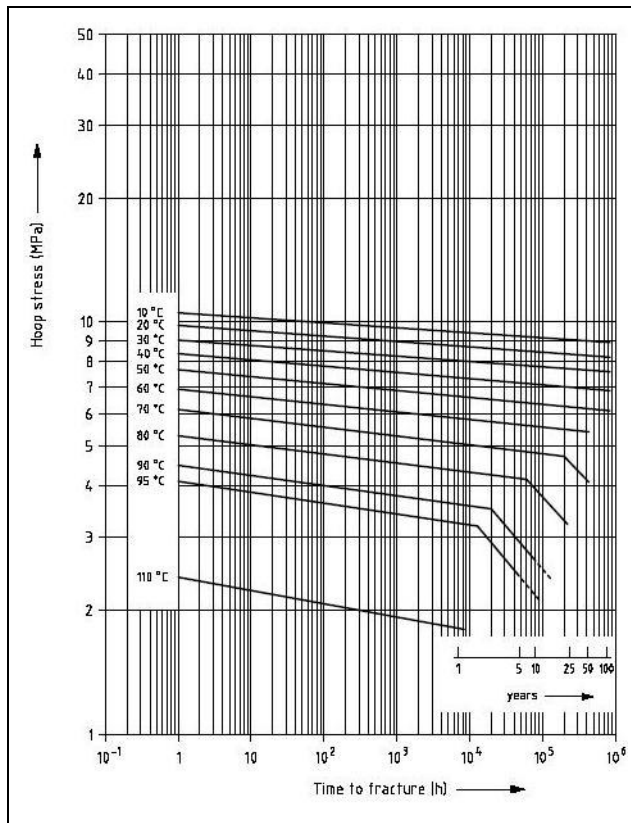
Version: 1, latest update: December 2006



Long-term hydrostatic pressure resistance, is the strength of a pipe required to resist an induced internal hydrostatic pressure:

$$\sigma = p \cdot \frac{d-s}{2 \cdot s}$$

where p is the induced hydrostatic pressure;
 d is the outside diameter of the pipe;
 s is the nominal wall thickness of the pipe.



ref. DIN 16833 – Figure 1

CODE	SIZE	COIL
R978Y223	16 x 2	100 m
R978Y224	16 x 2	120 m
R978Y225	16 x 2	200 m
R978Y226	16 x 2	240 m
R978Y227	16 x 2	600 m
R978Y233	17 x 2	100 m
R978Y234	17 x 2	120 m
R978Y235	17 x 2	240 m
R978Y237	17 x 2	600 m

Pe-RT / EVOH / Pe-RT:
in compliance with DIN 4721 and DIN 4726 norms.

Normative references

ISO 4065

Thermoplastic pipes – Universal wall thickness table.

DIN 16833




Polyethylene pipes of raised temperature resistance (Pe-RT) – General quality requirements, testing.

DIN 4721

Plastic piping systems for warm water floor heating systems and radiator connecting – Polyethylene of raised temperature resistance (Pe-RT).

Further information

For further information please visit the website www.giacomini.com or contact the technical support:

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DIN 4721

Table 1 – classification of service conditions

The performance requirements for piping systems are specified for a design period of 50 years.

Typical field of application	T _D (°C)	Time at T _D (years)	T _{max} (°C)	Time at T _{max} (years)	T _{mal} (°C)	Time at T _{mal} (h)
Class 4 Underfloor heating and low temperature radiators	20	2,5	70	2,5	100	100
	40	20				
	60	25				
Class 5 High temperature radiators	20	14	90	1	100	100
	60	25				
	80	10				

Design temperature (T_D)

Temperature or combination of temperatures of conveyed water dependent on the service conditions for which the system has been designed.

Maximum design temperature (T_{max})

Highest design temperature T_D, occurring for short periods only.

Malfunction temperature (T_{mal})

Highest temperature that can be reached when the control limits are exceeded.

All the pipes are suitable for the transportation of water for a period of 50 years at a temperature corresponding to the field of application and an operating pressure of 5 bar.

All the pipes are suitable for the transportation of water for a period of 50 years at a temperature of 20°C and an operating pressure of 10 bar.

All heating installations shall only use water or treated water as the transfer fluid (please contact us for guidance on the type of water treatment required and on aspects of application such as oxygen permeation).