



non-flammable PP pipes and fittings



# WE ARE

a private company Peštan, leader in the Balkans in the production and distribution of products and solutions from the polymers.

Company was founded in 1989 and has been producing water pipes made of polyethylene. Over time, we introduced new materials (polypropylene and PVC) and expanded product range. Today, in our offer you may find more than 6500 products, divided into four categories:



**PIPING  
SOLUTIONS**



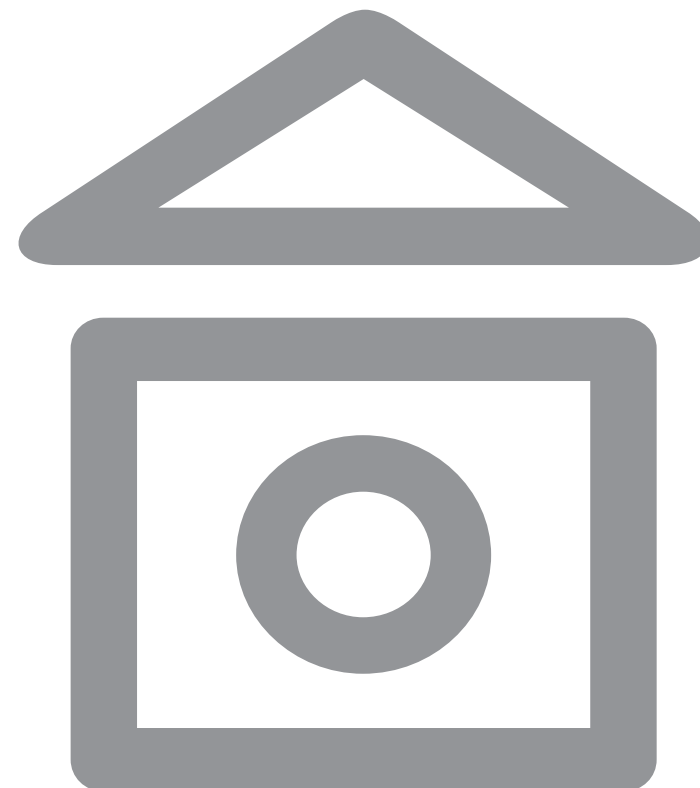
**DRAIN  
SOLUTIONS**



**AGRO CULTURE  
SOLUTIONS**



**HOUSEHOLD  
SOLUTIONS**



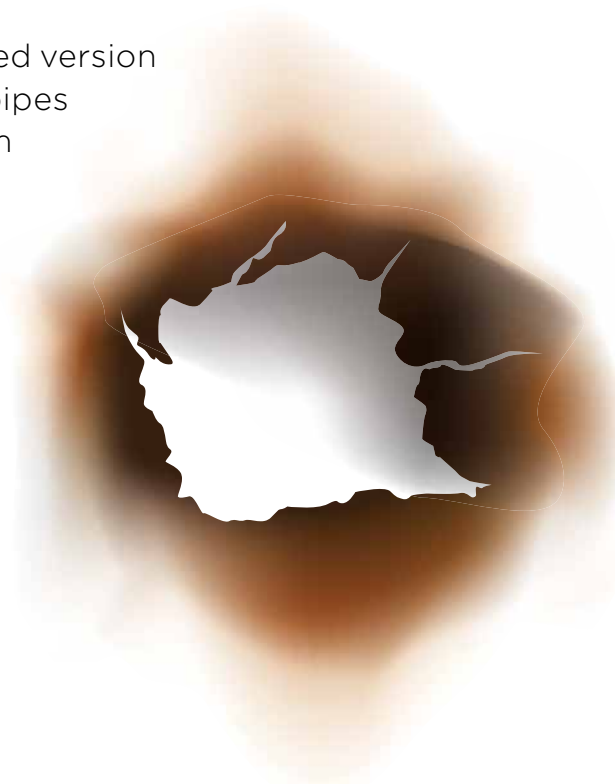



# H

T ONE presents an improved version of the existing HT (PP) pipes and fittings program from Peštan company.

The new generation of pipes and fittings made of polypropylene has excellent acoustic, thermal and insulating properties.

The main characteristic of the HT ONE assortment is the increased resistance to open flame which is extremely important in terms of the fire protection.





The program HT (PP) pipes and fittings from the company Peštan is produced from polypropylene by latest technology extrusion three-layer tubes per the requirements of European Standard 1451. Polypropylene has excellent mechanical and thermal properties, it doesn't contain heavy metals and it is suitable for recycling and subsequently use for other purposes. Recyclable without loss of mechanical properties make polypropylene an ecologically suitable material.

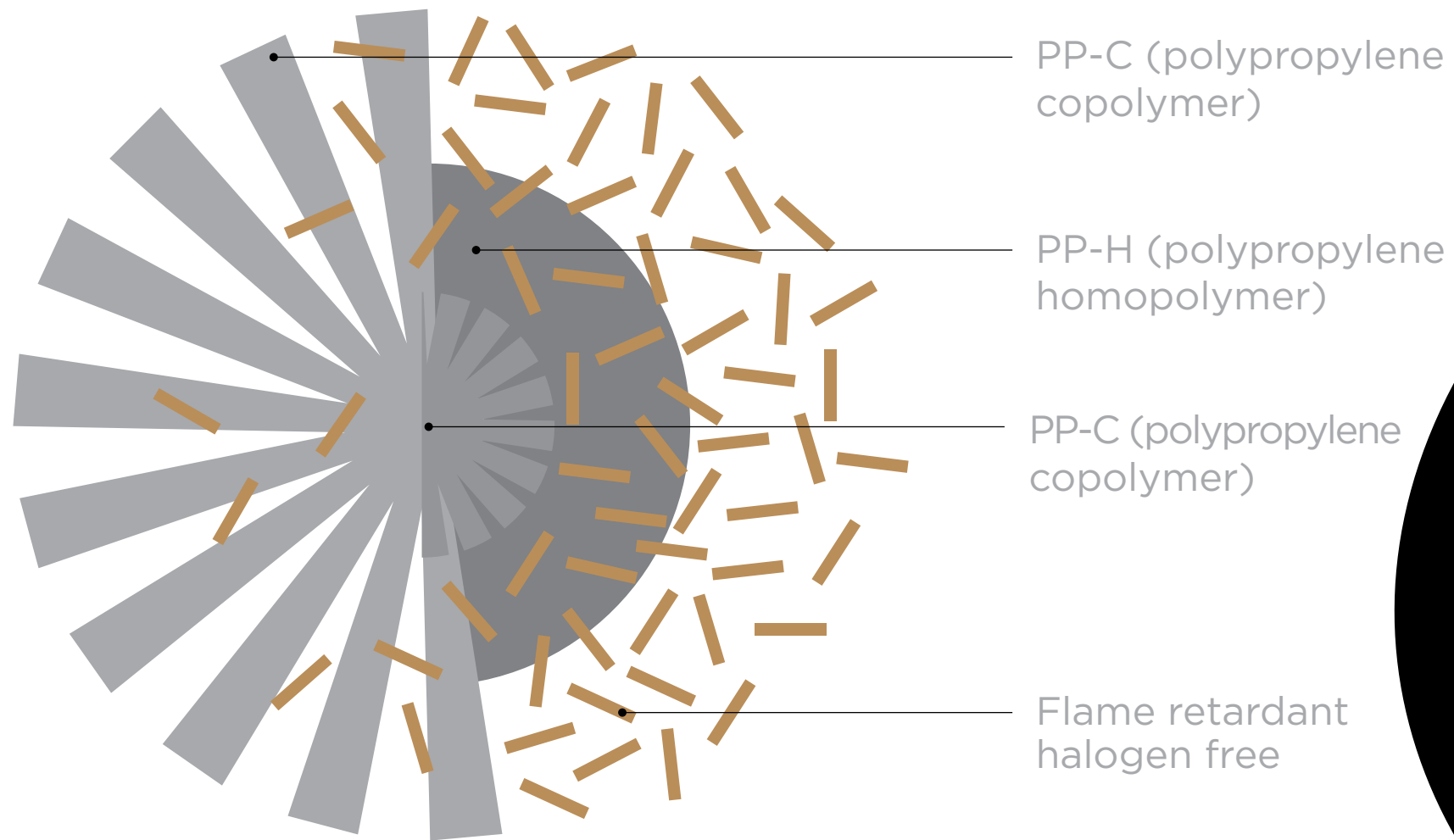
Pipes and fittings from HTPP Pestan production programs are intended for soil and waste discharge (low and high temperature) within the building structure (field of application B). HTPP system is universal and it can be used for drainage of contaminated water, for one-floor houses to large multiple storey buildings. They are very easy for application. Connecting pipes are made via the connecting elements, the fitting, while the watertightness is provided with compound of rubber sealing rings. The pipes can withstand fluid temperatures up to +90 °C.

# CHARACTERISTICS OF HT ONE PIPES AND FITTINGS

- Very light material
- Simple and easy way of both transport and manipulation
- Fast and cheap assembling
- Pipe connections are resistant to water and other type of fluids
- They are resistant to corrosion in alkaline, acid or aggressive environment
- They are fine electrical insulator, and also resistant to mechanical impact
- Guaranteed life time of more than 50 years
- Practically no costs of pipeline maintenance
- Connection with muffs and gaskets made of EPDM or rubber (EN 681)
- Airborne noise reduction (Airborn noise)
- Noise reduction transmitted over the walls of buildings (Structure-borne noise)
- Sound insulation level of 24dB (A) according to EN 14366
- SRPS EN 1451
- Class B1 (self-extinguishing) according to DIN4102

Material	PP-H (polypropylene homopolymer)
Pipe structure	Three-layer composite pipe PPH-PPM-PPH
Density	pipes (Ø32-Ø50) - 0.9 g/cm <sup>3</sup> , pipes (Ø63-Ø160) - 0.8 g/cm <sup>3</sup> , fitting - 0.9 g/cm <sup>3</sup>
Hot water resistance	short term up to 95 °C long term up to 60 °C
Linear expansion coefficient	0.12 mm/m °C
Chemical resistance	pH 2- pH 12
E - modulus	1300-2000 MPa
Joining method	Push-fit sockets with inserted rubber ring - resistant to leakage up to pressure of 0.5bar
Application category	B (instalation in buildings)
Fire classification	B2 - normal inflamability
Sound insulation level	24 dB(A) sound insulation Level II







# FIRE PROTECTION

Polypropylene has excellent acoustic, thermal and insulating properties (much better than, for example, steel).

In terms of the fire protection, the new improved HT ONE production program has increased resistance to an open flame and belongs to the Flammability Class B1, unlike HT (PP) program pipes and fittings that belongs to Flammability Class B2 all according to the DIN 4102 standard.

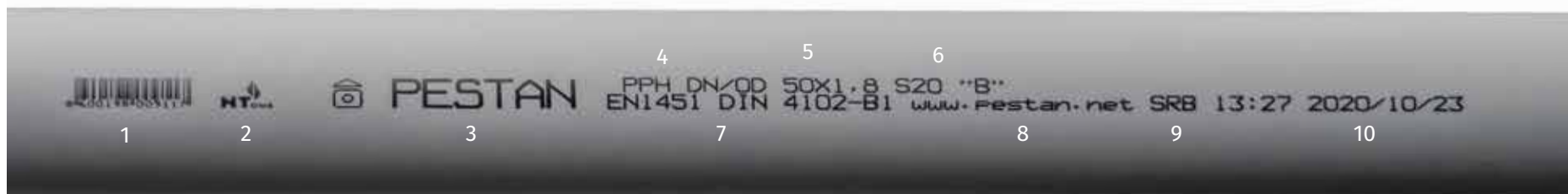
HT ONE pipes and fittings program belong to the group of low flammability materials – self-extinguishing materials.

# B1

# MARKING OF PIPES AND FITTINGS



# MARKING OF PIPES



- |    |  |     |                                      |
|----|--|-----|--------------------------------------|
| 1. | Barcode                                  | 6.  | Class pipe S20 and the area of use B |
| 2. | HT ONE logo                              | 7.  | Standard                             |
| 3. | Company Logo                             | 8.  | Website                              |
| 4. | Material                                 | 9.  | Origin                               |
| 5. | The external diameter and wall thickness | 10. | The time and date of manufacture     |

EN 1451 s20								
	DN 32	DN 40	DN50	DN75	DN90	DN110	DN125	DN160
Dem (mm)	32	40	50	75	90	110	125	160
e (mm) min	1.8	1.8	1.8	1.9	2.2	2.7	3.1	3.9
d3 (mm) min	38.6	49.6	59.6	84.5	99.5	120.5	137.5	174.3
B (mm) min	5	5	5	5	5,0	6	7	9
A (mm) min	24	26	28	33	34,0	36	38	41
L (mm)	250, 500, 100, 1500, 2000, 2500, 3000, 3500 i 4000							



# MARKING OF FITTINGS



- |    |                                      |
|----|--------------------------------------|
| 1. | Company logo                         |
| 2. | Type of fitting HTB                  |
| 3. | HT ONE logo                          |
| 4. | Nominal diameter and degree of angle |
| 5. | Standard                             |
| 6. | Class of fitting                     |
| 7. | Identification of material           |
| 8. | Date                                 |



# HT ONE PIPES & FITTINGS

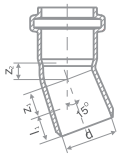

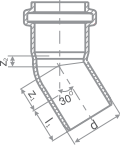

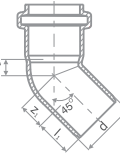

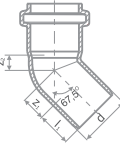

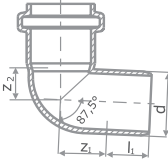

Product range from Ø32 up to Ø160

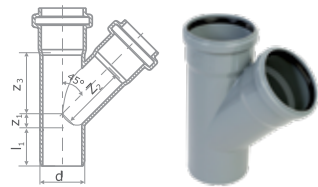

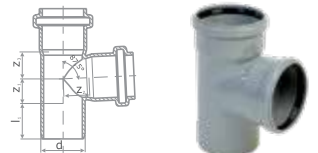


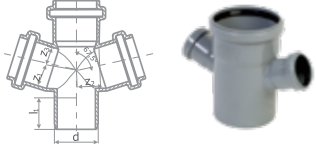
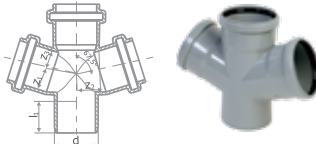
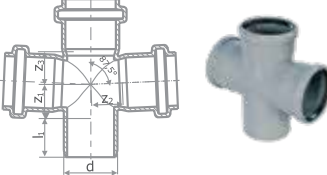
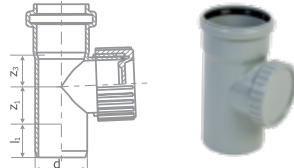
ITEM DESCRIPTION	PICTURE	D	D1	D2	S
HTEM PIPE SDR41					
		32	32,3	38,6	1,8
		40	40,3	49,6	1,8
		50	50,3	59,6	1,8
		75	75,3	84,5	1,9
		90	90,4	99,5	2,2
		110	110,3	120,5	2,7
		125	125,3	137,5	3,1
		160	160,3	174,3	3,9



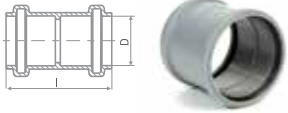
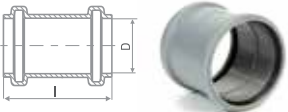
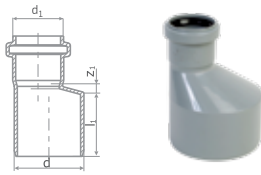
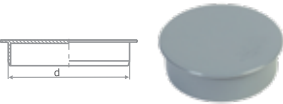
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		40	40,3	49,6	1,8
		50	50,3	59,6	1,8
		75	75,3	84,5	1,9
		90	90,4	99,5	2,2
		110	110,3	120,5	2,7
		125	125,3	137,5	3,1
		160	160,3	174,3	3,9

ITEM DESCRIPTION	PICTURE	D	Z1	Z2	L1MIN
HTB BEND 15°					
 		KYC	3	5	39
		40	4	7	44
		50	5	9	46
		75	7	11	51
		90	5.62	10.33	55
		110	9	14	58
		125	10	14	82
HTB BEND 30°					
 		32	8	13	39
		40	14	14	44
		50	9	12	46
		90	11.44	16.44	55
		110	17	21	58
		125	10	15	15
		160	29	23	23
HTB BEND 45°					
 		32	9	12	42
		40	10	14	44
		50	12	16	46
		75	18	21	51
		90	47	23	37
		110	25	29	58
		125	28	33	64
		160	42	36	94
HTB BEND 67.5°					
 		32	13	16	42
		40	16	19	44
		50	19	23	46
		75	28	32	51
		90	28.53	34.45	55
		110	40	46	58
		125	45	50	82
		160	64	58	94
HTB BEND 87.5°					
 		32	19	23	42
		40	23	26	44
		50	28	31	46
		75	40	43	51
		90	49	46	49
		110	57	57	58
		125	65	65	64
		160	89	83	94

ITEM DESCRIPTION	PICTURE	D	Z1	Z2	Z3	L1 <sub>MIN</sub>
HTEA BRANCH 45°						
		32/32	9	40	40	42
		40/32	5	46	44	44
		40/40	10	49	49	44
		50/32	-1	53	49	46
		50/40	5	56	54	46
		50/50	12	61	61	46
		75/50	-1	79	74	51
		75/75	18	91	91	51
		90/50	9.64	98.01	90.34	55
		90/90	17	110	161	56
		110/50	-17	104	91	58
		110/75	1	116	109	58
		110/110	25	134	134	58
		125/110	18	144	141	64
		125/125	28	152	152	64
HTEA BRANCH 67.5°						
		32/32	13	27	27	42
		40/40	16	33	33	44
		50/50	19	40	40	46
		110/50	9	72	52	58
		110/110	40	85	85	58
HTEA BRANCH 87.5°						
		32/32	19	21	21	42
		40/32	19	25	21	44
		40/40	23	25	25	44
		50/32	19	30	21	46
		50/40	23	30	25	46
		50/50	28	30	30	46
		75/50	27	43	31	51
		75/75	40	43	43	51
		90/40	16.91	93.05	83.37	55
		90/50	23.06	55.1	36.57	55
		90/90	43.13	56.64	56.64	56
		110/40	20.40	56	30.5	58
		110/50	28	60	32	58
		110/75	40	60	45	58
		110/110	57	62	62	58
		125/110	58	69	63	64
		125/125	65	70	70	64
		160/125	66	87	71	81
		160/160	83	89	89	81

ITEM DESCRIPTION	PICTURE	D	Z1	Z2	Z3	L1MIN
HTDA DOUBLE BRANCH 45°						
		50/50/50	12	61	61	46
		50/110/50	-17	104	91	58
		110/110/110	25	134	134	58
HTDA DOUBLE BRANCH 67,5°						
		50/50/50	19	40	40	46
		50/110/50	9	72	52	58
		110/110/110	40	85	85	58
HTDA DOUBLE BRANCH 87,5°						
		50/50/50	28	30	30	46
		50/110/50	28	60	32	58
HTRE INSPECTION PIPE						
		50	32		30	46
		75	48		43	51
		110	58		62	58
		125	58		62	64



ITEM DESCRIPTION	PICTURE	D	Z1	I
HTU DOUBLE SOCKET		32		94
		40		103
		50		103
		75		109
		90		104
		110		122
		125		138
HTU SLIP COUPLER		32		94
		40		103
		50		103
		75		109
		110		122
		125		138
HTR EXCENTRIC REDUCER		40/32	10	44
		50/32	16	46
		50/40	12	46
		75/50	20	51
		110/50	40	58
		110/75	26	58
		125/110	15	64
		160/110	34	81
		160/125	27	81
HTM END CAP		32		
		40		
		50		
		75		
		110		
		125		
		160		
		200		

# BRAND MANIFESTO

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We are not oriented just to production, we combine reliability with quality for the ultimate benefit of our clients.

We do not build short-term client relationships, but long-term and genuine partnerships.

Everything we do, we do with one thing in mind - to create ideas to perfectly match all our client needs and the best way for us to achieve this goal is to constantly educate our clients provide solutions that meet their specific needs and support them throughout the entire process.

Because our success is as big as your trust in us.





[www.pestan.net](http://www.pestan.net)