

# TECHNICAL DATA SHEET

## ULTRASTRESS PROTECT GAS

Gas supply pressure pipes from PE100-RC/PP

According to PAS 1075 Type 3  
Conforms to: EN 1555-2

**DIN CERTCO**

**Nordic Poly Mark**

### PRODUCT DESCRIPTION

Gas supply pressure piping system ULTRASTRESS PROTECT GAS consists of PE100-RC solid-wall pipes with protective PP layer (identified by longitudinal green lines) and wide range of fittings. PE100-RC/PP material pipes are resistant to long term expansion of cracks, scratching and point type loads which are especially common during assembly of the pipelines using trenchless installation methods (for instance, as a result of friction against the stones that are present in the soil). PE100-RC pipes with PP layer provide additional durability against scratching in cases of especially complex installation, e.g. installation in old pipe.

Material: High density crack resistant polyethylene PE100-RC with polypropylene (PP) layer. Core pipe is black with 4 orange stripes and outer layer is yellow with 4 green stripes. Pipes are manufactured according to: EN 1555-2, PAS 1075 specifications.

### APPLICATION AREA

ULTRASTRESS PROTECT GAS pipes are designed for gas supply pressure systems, with recommended installation methods of pulling in the site of the old pipe with or without the destruction of the old pipe according to EN 12889, EN 14457.

### PRODUCT DIMENSIONS

Core pipe dimensions conform to EN 1555-2 specifications. Core pipe maximum operating pressure according to EN1555-2 (with C=2,0 at temperature 20 °C) MOP 10 bar for pipe SDR 11.

#### PE100-RC / PP

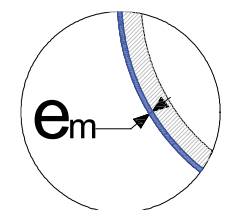
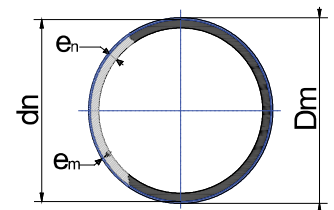
According to PAS 1075:

#### Type 3

Open product



Core pipe dimensions	PP layer	Main dimensions	Length
$d_n \times e_{nv}$ mm	$e_{mv}$ mm ( $\pm 10\%$ )	$D_{mv}$ mm	L, m
<b>SDR 11</b>			
32 x 3,0	~0,9	33,8	100-2000
40 x 3,7	~1,0	42	100-1000
63 x 5,8	~1,0	65	100-600
90 x 8,2	~1,5	93	100-200
110 x 10,0	~1,8	113,6	12 /13,4 /20 /50
125 x 11,4	~2,0	129	12 /13,4 /20
160 x 14,6	~2,0	164	12 /13,4 /20
200 x 18,2	~2,0	204	12 /13,4 /20
225 x 20,5	~3,0	231	12 /13,4 /20
250 x 22,7	~3,0	256	12 /13,4 /20
280 x 25,4	~3,0	286	12 /13,4 /20
315 x 28,6	~3,0	321	12 /13,4 /20
355 x 32,2	~4,0	363	12 /13,4 /20
400 x 36,3	~4,0	408	12 /13,4 /20
450 x 40,9	~4,0	458	12 /13,4 /20
500 x 45,4	~4,0	508	12 /13,4 /20
560 x 50,8	~5,0	570	12 /13,4 /20
630 x 57,2	~5,0	640	12 /13,4 /20



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### PRODUCT PARAMETERS

Parameter	Value	Test method
Material	Core pipe: PE100-RC Outer layer: PP	PAS 1075
Hydrostatic pressure resistance (80 °C, 5 MPa)	>1000 h	EN ISO 1167-1 EN ISO 1167-2
Tensile elongation	>350%	EN ISO 6259-1
Resistance to crack growth (80 °C, 4 N/MPa, 2% Arkopal N-100)	>8760 h	ISO 16770
Resistance to slow crack growth (80 °C, 9.2 bar)	>8760 h	EN ISO 13479
Mass flow rate MFR (5 kg, 190 °C, 10 min)	0.25 ± 20%	EN ISO 1133
Oxidation induction time (200 °C)	≥20% min	ISO 11357-6
Longitudinal reversion (e <sub>r</sub> ≤ 16 mm, 110 °C)	≤3%	EN ISO 2505
Chemical resistance	pH 2 ≥ pH ≥ pH 12	ISO/TR 10358



### PRODUCT MARKING

#### Protective layer marking

Aspect	Marking
Standard number	EN 1555
Material requirements and type	PAS 1075 Type 3
Manufacturers information	EVOPIPES
Product identification	ULTRASTRESS PROTECT GAS
Core pipe dimensions (diameter x wall thickness)	e.g. 110 x 10,0
SDR series	e.g. SDR 11
Extrusion type	PEELABLE PP LAYER
Material	PE100-RC/PP
Intended application (GAS-gas supply)	GAS
Date of production	date
QA organization signature	Nordic Poly Mark, DIN CERTO

#### PE100-RC / PP

According to PAS 1075:

#### Type 3

#### Open product

#### Core pipe marking

Aspect	Marking
Standard number	EN 1555
Material requirements and type	PAS 1075 Type 1
Manufacturers information	EVOPIPES
Dimensions (diameter x wall thickness)	e.g. 110 x 10,0
SDR series	e.g. SDR 11
Material	PE100-RC
Intended application (GAS-gas supply)	GAS
Date of production (dd/mm/yy)	date
QA organization signature	Nordic Poly Mark, DIN CERTO