

CLEAR DUCT™
DATA SHEET
Ø90mm to Ø315mm

POLYMER

All pipe to be produced from Black PE100 polymer using one of the following grades:

- 🔗 Borealis Borsafe HE3490-LS
- 🔗 Ineos Eltex TUB121N3000
- 🔗 Lyondell Bassell CRP100
- 🔗 Sabic Vestolen A6060R10000

STRAIGHT STICK & COILED PIPE DIMENSIONS SDR11

All dimensions to be in accordance with table below:

Product Code	Outside diameter Min. (mm)	Outside diameter Max (mm)	Ovality (Max)	SDR11 Wall Thickness Min. (mm)	SDR11 Wall Thickness Max. (mm)
CDHKN090X**M	90	90.6	1.8	8.2	9.2
CDHKN110X**M	110	110.7	2.2	10.0	11.1
CDHKN125X**M	125	125.8	2.5	11.4	12.7
CDHKN140X**M	140	140.9	2.8	12.7	14.1
CDHKN160X**M	160	161.0	3.2	14.6	16.2
CDHKN180X**M	180	181.1	3.6	16.4	18.2
CDHKN200X**M	200	201.2	4.0	18.2	20.2
CDHKN225X**M	225	226.4	4.5	20.5	22.7
CDHKN250X**M	250	251.5	5.0	22.7	25.1
CDHKN280X**M	280	281.7	9.8	25.4	28.1
CDHKN315X**M	315	316.9	11.1	28.6	31.6

All dimensions are to be measured at 23 ±2°C

COILED PIPE AVAILABILITY (HIGHLIGHTED)

MARKING DETAIL

The pipe to be marked on two sides (180°) at intervals not greater than 1 metre

Example:

**WWW.PEAKPIPESYSTEMS.COM; DANGER ELECTRIC CABLE; CLEAR DUCT PPS1/2;
PE100; DIAMETER(MM); SDR11; BUTT WELDING PARAMETERS IN ACCORDANCE WITH
PRODUCT DATASHEET; B1/B2/B3;
DATE /TIME; WO NO.**

Print colour: White

Print size: No smaller than 8mm

PIPE APPEARANCE

Colour: Solid black

Visual Appearance: internal and external surfaces shall be free of scoring, cavities or any other defects that would prevent conformity to customer requirements or compromise performance in use.

Pipe Ends: The ends of the pipe shall be clean and cut square to the axis of the pipe.

JOINTING/WELDING INFORMATION

Welding strictly to 'PEAK CLEAR DUCT 2018' parameters, as indicated within the **Fusion Gator 2** automatic butt fusion (ABF) machine.

Machine to only be supplied through authorised distributors.

Distributor Information available upon request, please call +44 (0) 1246 262702.

Performance of the product will be considerably reduced if incorrect jointing parameters are used and Peak will not warrant the integrity of the product if this is found to be the case.

We advise that good welding practice is always adhered to. Guidelines can be submitted for reference upon request.

QUALITY

At Peak Pipe Systems we have certified Quality Management Systems
that comply with the requirements of
ISO 9001:2015 (FM654870)

PERIODIC PRODUCT TESTING

- ☛ Resistance to Internal Pressure at 80° C for 165hrs, SDR11 Pressure (10.8 Bar)**
 A material test sample is taken and prepared on a periodic basis in accordance with BS EN ISO 1167. Time to failure shall be not less than 165 hours.
- ☛ Resistance to Internal Pressure at 20° C for 100hrs, SDR11 Pressure (24.8 Bar)**
 A material test sample is taken and prepared on a periodic basis in accordance with BS EN ISO 1167. Time to failure shall be not less than 100 hours.
- ☛ Resistance to Slow Crack Propagation.**
 A material test sample is taken and prepared on a periodic basis in accordance with BS EN ISO 13479. Time to failure shall be not less than 1,000 hours.

BATCH RELEASE TESTING (BRT)

Characteristics and minimum sampling frequency for the **BRT**

Characteristics	Reference to Part, clause or sub-clause BS EN12201-2: 2011+A1:2013	Minimum sampling frequency ^a	Number of test pieces	Test Method
Material Properties	4.1	Every Batch of Material	N/A	Refer to the Supplier's Certificate of Conformity
Appearance and colour	5.1+5.2	At start-up and at least every 8 hrs.	1	Visual Inspection Recorded on the Manufacturing Order ^b
Geometrical	6	At start-up and at least every 8 hrs	1	Visual Inspection Recorded on the Manufacturing Order ^b
Marking	11.2	At start-up and every 8 hrs.	1	Visual Inspection Recorded on the Manufacturing Order ^b
Elongation at break	7.2	1 sample/batch	See note c	EN ISO 6259-1 and ISO 6259-3 :1997
CLEARDUCT Tensile Strength for Butt Fusion	EN12201-5:2011, 4.2.2.1+4.2.2.2	1 sample/batch	1	ISO 13953

- a. Batch refers to pipe batch but an alternative approach could be considered based on compound batch if agreed by the certification body.
- b. See In Process Inspection
- c. Number of test pieces and the test piece shape are specified in EN ISO 6259-1:2001 and ISO 6259-3:1997 respectively. The test pieces are taken from the circumference of one pipe sample.