



# Fusamatic PE electrofusion fittings

## Technical Datasheet



Uponor



# Fusamatic PE electrofusion fittings



## Moulded-in welding parameters

Information includes fitting size, material (PE100), applicable pipe SDRs, welding parameters and pressure ratings.

## Permanently marked batch number

The injection-moulded batch number is just one of the numerous quality control identifiers.

## Fusamatic pin

Provides a totally automatic method for ensuring the correct welding parameters are used. Interface diameter 4mm.

## Indicators

This is a visible sign that the necessary jointing pressure has been achieved.

## Barcode / QR code

Provides full traceability of raw material for each individual fitting and welding information.

## Uponor Fusamatic PE fittings

Electrofusion is a method of joining PE pipes with fittings by integrated heating elements. To make a good long-lived connection it is important that all official instructions are followed. Well-made connections can withstand all the same forces that connected pressure pipes can.

All Fusion's electrofusion fittings are individually inspected using a computerised monitoring system that utilises advanced barcode

technology. The barcode provides full individual fitting traceability right down to the polymer batch.

The quality, reliability and flexibility of Fusion's electrofusion fittings provide the certainty and peace of mind needed for polyethylene pipe jointing.

Fittings can be used with PE pressure pipes for drinking water, sewage and gas.

# Technical data

<b>Connection method</b>	Electrofusion
<b>Material</b>	PE100
<b>Colour</b>	Black
<b>Dimensions</b>	ø20-225mm
<b>Pressure ratings</b>	PN10 (SDR17) and PN16 (SDR11) For gas applications, the maximum operating pressure should correspond to the SDR class of fittings according to local regulations.
<b>Installation instructions</b>	Installing must be done according to local instructions.
<b>Standards and approvals</b>	Nordic Poly Mark DK-VAND (drinking water approval) EN 12201-3 (standard for water and sewage) INSTA SBC EN 12201-3 EN 1555-3 (standard for gas) INSTA SBC EN 1555-3 DVGW GW 335-B2-B1 KIWA BRL-K17105 WRAS Kitemark GIS/PL2-4 Kitemark GIS/PL2-6 AS/NZS 4129 EN ISO 15494 UNI EN ISO 15494 ACS
<i>Due to size and regulations on fitting type across standards, some of our product assortment may not be certified under standards shown.</i>	

Properties	Unit	PE100 fittings	Terms	Test method
Density	kg/m <sup>3</sup>	950		ISO 1183
Melt index	g/10 min	0,3	(190°C, 5 kg)	ISO 1133 Metode 18
Long-term creep module E <sub>50</sub>	MPa	275		ISO 6259
Short-term creep module E <sub>50</sub>	MPa	1100		ISO 6259
Length extension coefficient	mm/m · °C	0,13		
Heat conduction figures	W/ m · °C	0,4	(20°C)	DIN 52 612
Heat content	j/g · °C	1,9		
Flow strength	MPa	23		
Stretch fracture	%	>600		
Allowed stretch	%	2,5-5		
Chemical resistance	ISO/TR 7620			

## SDR ratings

Electrofusion fittings for jointing	Dimension $\geq 63$ mm SDR17 and SDR11	Dimension $< 63$ mm SDR11
 Coupler	●	●
 Elbow, 45° and 90°	●	●
 Reducer	●	●
 Equal tee	●	●
 Tapping tee *	●	●
 Branch saddle	●	●
 Transition fittings	●	●

\* Tapping tees dim. 63 just for SDR11 pipelines.

**Moving**  
**> Forward**

**uponor**

**Uponor Infra A/S**

Bødkervej 5  
4450 Jyderup  
Denmark

**T** +45 46 40 53 11

**W** [www.uponor.com/da-dk/infra](http://www.uponor.com/da-dk/infra)

**E** [infrastruktur.dk@uponor.com](mailto:infrastruktur.dk@uponor.com)