



# ELTEX<sup>®</sup> TUB121

## Product Technical Information

ELTEX<sup>®</sup> TUB121 is a high-density polyethylene copolymer designed for injection moulding of pipe fittings. It is characterized as PE 100 Black pipe compound

## Benefits & Features

ELTEX<sup>®</sup> TUB121 is classified PE 100 in accordance with ISO 12162 based on ISO 9080 analysis. ELTEX<sup>®</sup> TUB121 is specifically recommended for injection moulding of fittings.

## Applications

- Gas
- Water
- Industrial

| Properties  | Conditions      | Test Methods | Values   | Units             |
|---|-----------------|--------------|----------|-------------------|
| <b>Rheological</b>                                    |                 |              |          |                   |
| Melt Flow Rate  | 190°C/5 kg      | ISO 1133-1   | 0.45     | g/10min           |
| <b>Physical</b>                                       |                 |              |          |                   |
| Density ISO 1872-1                                    | 23°C            | ISO 1183-1   | 959      | kg/m <sup>3</sup> |
| <b>Mechanical</b>                                     |                 |              |          |                   |
| Tensile Strength at Yield                             | 23°C            | ISO 527-2    | 25       | MPa               |
| Tensile strain at Break                               | 23°C, 50 mm/min | ISO 527-2    | >350     | %                 |
| Tensile Modulus                                       | 23°C, 1 mm/min  | ISO 527-2    | 1100     | MPa               |
| <b>Thermal</b>  |                 |              |          |                   |
| Vicat Softening Temperature                           | 10N             | ISO306/A50   | 128      | °C                |
| Oxidation Induction Time (OIT)                        | 210°C           | ISO 11357-6  | >20      | min               |
| <b>Pigmentation</b>                                   |                 |              |          |                   |
| Carbon Black Dispersion                               |                 | ISO18553     | <3       | Grade             |
| Carbon Black Content                                  |                 | ISO6964      | 2 to 2.5 | %                 |
| <b>Data should not be used for specification work</b> |                 |              |          |                   |

## Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration.

It is advised to process the product within maximum one year after delivery.