



TotalEnergies

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Polyethylene MDPE 3802 B

Technical data sheet
Medium Density Polyethylene PIPES & FITTINGS
Produced in Europe

Description

MDPE 3802 B is a high performance hexene-based black compound, with a MRS 8 MPa - PE 80 classification, and primarily intended for potable water and gas pipe applications.

MDPE 3802 B key characteristics are :

- a superior resistance to slow crack growth ensuring safe and long-term network operation
- an optimal balance of flexibility and mechanical strength that allows easy coiling, handling and installing of pipes
- an optimised formulation of additives and finely dispersed carbon black providing outstanding long-term stability in service.

Designation ISO 1872-PE,E/M-ACGHL,40-T012

Characteristics

| Property | Method | Unit | Typical value (*) |
|-----------------------------|----------------------|-------------------|-------------------|
| Density | ISO 1183 | kg/m ³ | 948 |
| Melt Flow Rate (190°C/5 kg) | ISO 1133/T | g/10 min | 0.9 |
| Thermal stability 200°C | EN 728 / ISO 11357-6 | min | > 20 |
| Carbon black content | ISO 6964 | % | 2.0 – 2.5 |
| Carbon black dispersion | ISO 18553 | rating | ≤ 3 |
| Water content (**) | EN 12118 | ppm | ≤ 300 |

(*) Data not intended for specification purposes

(**) Measured at the stage of compound manufacturing