

## Technical Data Sheet

### Hostalen 4131B



High Density Polyethylene

#### Product Description

Hostalen 4131B is a high density polyethylene (HDPE) with high melt viscosity for extrusion. The product provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength and high long term heat aging stability. Hostalen 4131B fullfills the requirements of DIN 16833 / ISO 24033 for PE-RT, Type II. Typical customer applications are underfloor heating and multilayer pipe for heating and plumbing.

The product is not being sold for use in North America.

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

|                          |   |
|--------------------------|---|
| <b>Application</b>       | Drinking Water Pipe; Plumbing, Heating & Cooling  |
| <b>Market</b>            | Pipe  |
| <b>Processing Method</b> | Pipe; Sheet   |
| <b>Attribute</b>         | Extraction Resistant; Good Chemical Resistance; Good Creep Resistance; Good ESCR (Environmental Stress Cracking Resistance); Good Heat Aging Resistance; Good Organoleptic Properties; Weldable |

| Typical Properties                          | Nominal Value | Units             | Test Method   |
|---|---------------|-------------------|---------------|
| <b>Physical</b>                             |               |                   |               |
| Melt Flow Rate                              |               |                   |               |
| (190 °C/5.0 kg)                             | 2.2           | g/10 min          | ISO 1133-1    |
| (190 °C/21.6 kg)                            | 18            | g/10 min          | ISO 1133-1    |
| Density                                     | 0.941         | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                           |               |                   |               |
| Tensile Modulus, (23 °C)                    | 650           | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                     | 23            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Yield, (23 °C, 50 mm/min) | 8             | %                 | ISO 527-1, -2 |
| MRS Classification                          | 8             | MPa               | ISO 9080      |
| <b>Hardness</b>                             |               |                   |               |
| Shore Hardness, (Shore D, 3 sec)            | 58            |                   | ISO 868       |
| <b>Thermal</b>                              |               |                   |               |
| Vicat Softening Temperature                 |               |                   |               |
| (A50)                                       | 125           | °C                | ISO 306       |
| (B50)                                       | 70            | °C                | ISO 306       |
| Oxidation Induction Time, (210 °C)          | 40            | min               | ISO 11357-6   |