

## Technical Data Sheet

### *Hostalen 3531B*



Polyethylene, Medium Density

#### Product Description

*Hostalen 3531B* is a natural colour polyethylene resin with high melt viscosity for extrusion. The product provides good stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength even at raised temperature (RT). *Hostalen 3531B* offers high heat- and extraction stability.

Typical customer application: Underfloor heating pipes with high flexibility for easy installation.

This grade is not intended for medical and pharmaceutical applications.

|                   |                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | Underfloor Heating                                                                                                                                                |
| Market            | Pipe                                                                                                                                                              |
| Processing Method | Pipe; Sheet                                                                                                                                                       |
| Attribute         | Extraction Resistant; Good Chemical Resistance; Good Creep Resistance; Good ESCR (Environmental Stress Cracking Resistance); Good Heat Aging Resistance; Weldable |

| Typical Properties                          | Nominal Value | Units             | Test Method   |
|---------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                             |               |                   |               |
| Melt Flow Rate                              |               |                   |               |
| (190 °C/5.0 kg)                             | 0.6           | g/10 min          | ISO 1133-1    |
| (190 °C/21.6 kg)                            | 12            | g/10 min          | ISO 1133-1    |
| Density                                     | 0.936         | 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 °C, 50 mm/min) | 18            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break, (23 °C)            | 650           | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield, (23 °C, 50 mm/min) | 11            | %                 | ISO 527-1, -2 |
| MRS Classification                          | 8             | MPa               | ISO 9080      |
| <b>Thermal</b>                              |               |                   |               |
| Oxidation Induction Time, (210 °C)          | >=40          | min               | ISO 11357-6   |