

## 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 fulfills 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