

Hostalen 4131 B

Polyethylene, High Density

Product Description

Hostalen 4131 B 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 4131 B fullfills the requirements of DIN 16833 / ISO 24033 for PE-RT, Typ 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.

It is not intended for medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Africa-Middle East
Processing Methods	Extrusion Pipe Sheet and Semi Finished Products
Typical Customer Applications	Drinking Water Pipe, Plumbing, Heating & Cooling

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.941	g/cm ³
Melt flow rate (MFR)	ISO 1133		
(190°C/21.6kg)		14	g/10 min
(190°C/5.0kg)		1.8	g/10 min
Mechanical			
Tensile Modulus (23 °C, v = 1 mm/min, Secant)	ISO 527-1, -2	650	MPa
Tensile Stress at Yield (23 °C, v = 50 mm/min)	ISO 527-1, -2	23	MPa
Tensile Strain at Yield (23 °C, v = 50 mm/min)	ISO 527-1, -2	8	%
MRS classification	ISO 9080	8	MPa
Hardness			
Shore hardness (Shore D (3 sec))	ISO 868	58	
Thermal			
Oxidation induction time (OIT) (210°C)	ISO 11357-6 / EN 728	40	min

Additional Properties

Processing:

Recommended melt temperatures: 190-220 °C.

Recommended injection moulding temperatures: 200-280 °C.

Notes

Typical properties; not to be construed as specifications.

