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
Physical			
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/cm³	ISO 1183-1
Mechanical			
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
Thermal			
Oxidation Induction Time, (210 °C)	>=40	min	ISO 11357-6