

Hostalen 4731 B

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen 4731 B is a high density polyethylene (HDPE) with high melt viscosity for extrusion. The product provides excellent stress crack resistance properties (ESCR) combined very good long term hydrostatic strength, high heat- and extremely high extraction stability. Hostalen 4731 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.

General Information			
Features	High ESCR (Stress Crack Resist.)		
	High Viscosity		
Uses	Piping		
Processing Method	Extrusion		
	Pipe Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.947	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	9.5	g/10 min	
190°C/5.0 kg	0.45	g/10 min	
FNCT - 4.0 MPa ¹ (80°C)	> 14.6	day	ISO 16770
Oxidation Induction Time (210°C)	40	min	ISO 11357-6
MRS Classification	10.0	MPa	ISO 9080
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	59		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	850	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	22.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	8.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	8.0	kJ/m ²	
23°C	24	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	120	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50

Injection	Nominal Value	Unit
Processing (Melt) Temp	200 to 280	°C
Extrusion	Nominal Value	Unit
Melt Temperature	190 to 220	°C
NOTE		
1.	2% Arkopal N 100	

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