

## Technical Data Sheet

### Akoalit PB 4268 WHITE



Polybutene-1

#### Product Description

*Akoalit* PB 4268 white is a premium highly isotactic polyolefin homopolymer manufactured from butene-1 monomer. The product provides excellent long term hydrostatic strength also at elevated temperatures combined with high flexibility. *Akoalit* PB 4268 complies with requirements specified in ISO 15876, ISO 12230, DIN 16968/DIN 16969 and many other National Standards for PB-1 pipe applications. The grade is typically used for high-performance extrusion into pipe and injection moulding into fittings for potable hot and cold water distribution applications where improved organoleptic properties are required.

*Akoalit* PB 4268 is available in white colour in pellet form.

*Akoalit* PB 4268 may not be used in the manufacture of pipe applications intended for sale or shipment to North America, without prior written approval by Seller for each specific product and application

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

<b>Application</b>	District Heating; Drinking Water Pipe; Industrial; Radiator Connections; Underfloor Heating
<b>Market</b>	Industrial, Building & Construction; Pipe
<b>Processing Method</b>	Pipe; Sheet
<b>Attribute</b>	Good Creep Resistance; Good Flexibility; Good Organoleptic Properties; Good Thermal Stability; Homopolymer; Weldable

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	0.60	g/10 min	ISO 1133-1
Density	0.925	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Flexural Modulus	450	MPa	ISO 178
Tensile Strength at Break	30	MPa	ISO 8986-2
Tensile Strength at Yield	17	MPa	ISO 8986-2
Tensile Elongation at Break	225	%	ISO 8986-2
<b>Thermal</b>			
DSC Melting Point	130	°C	DSC
<b>Processing Parameters</b>			
Extrusion Temperature	180-200	°C	
Injection Moulding Temperature	200-240	°C	
Cooling Water Temperature	10-12	°C	
Vacuum	30-60	mbar	