

## Technical Data Sheet

### Akoalit PB 4237 GREY



Polybutene-1

#### Product Description

Akoalit PB 4237 grey is a 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 4237 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 extrusion into pipe and injection moulding into fittings for potable hot and cold water distribution applications.

Akoalit PB 4237 is available in grey colour in pellet form.

Akoalit PB 4237 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; Fittings; Industrial; Radiator Connections; Underfloor Heating
<b>Market</b>	Industrial, Building & Construction; Pipe
<b>Processing Method</b>	Sheet
<b>Attribute</b>	Good Creep Resistance; Good Flexibility; Good Thermal Stability; Homopolymer; Weldable

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/2.16 kg)	0.4	g/10 min	ISO 1133-1
Density	0.938	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	200	%	ISO 8986-2
<b>Thermal</b>			
DSC Melting Point	129	°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	