

Technical Data Sheet

Akoafloor PB 4235-1 IVORY



Polybutene-1

Product Description

Akoafloor PB 4235-1 ivory 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.

Akoafloor PB 4235-1 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 nonpotable heating water applications.

Akoafloor PB 4235-1 is available in ivory colour in pellet form.

Akoafloor PB 4235-1 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.

Application	District Heating; Fittings; Industrial; Radiator Connections; Underfloor Heating
Market	Industrial, Building & Construction; Pipe
Processing Method	Pipe; Sheet
Attribute	Good Creep Resistance; Good Flexibility; Good Thermal Stability; Homopolymer; Weldable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.60	g/10 min	ASTM D1238
Density	0.93	g/cm ³	ISO 1183-1
Mechanical			
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
Thermal			
DSC Melting Point	130	°C	DSC
Processing Parameters			
Extrusion Temperature	180-200	°C	
Injection Moulding Temperature	200-240	°C	
Cooling Water Temperature	10-12	°C	
Vacuum	30-60	mbar	