Technical Data Sheet

Akoalit PB 4267 GREY

Polybutene-1

Product Description

Akoalit PB 4267 GREY 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 4267 GREY 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 4267 GREY is available in grey colour in pellet form.

Akoalit PB 4267 GREY 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.

Application	District Heating; Drinking Water Pipe; Industrial; Radiator Connections; Underfloor Heating
Market	Industrial, Building & Construction; Pipe
Processing Method	Pipe; Sheet
Attribute	Good Creep Resistance; Good Flexibility; Good Organoleptic Properties; 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	ISO 1133-1
Density	0.925	g/cm³	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	