

Technical Data Sheet

Akoalit PB R539



Polybutene-1

Product Description

Akoalit PB R539 natural is a highly isotactic random copolymer manufactured from butene-1 monomer. The product provides good long term hydrostatic strength also at elevated temperatures combined with extremely high flexibility. The grade is typically used for liners for potable water applications.

Akoalit PB R539 is available in natural colour in pellet form.

Akoalit PB R539 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	Liner Film
Market	Industrial, Building & Construction
Processing Method	Sheet
Attribute	Copolymer; Good Creep Resistance; Good Flexibility; Good Thermal Stability; Weldable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.7	g/10 min	ISO 1133-1
Density	0.920	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	370	MPa	ISO 178
Tensile Strength at Break	35	MPa	ISO 8986-2
Tensile Strength at Yield	15	MPa	ISO 8986-2
Tensile Elongation at Break	320	%	ISO 8986-2
Thermal			
DSC Melting Point	123	°C	DSC
Processing Parameters			
Extrusion Temperature	175-190	°C	
Injection Moulding Temperature	200-240	°C	
Cooling Water Temperature	10-12	°C	
Vacuum	30-60	mbar	