Technical Data Sheet

Akoafloor PB R509 BROWN



Polybutene-1

Product Description

Akoafloor PB R 509 brown 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.

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Akoafloor PB R 509 complies with requirements specified in ISO 12230, DIN 16968/DIN 16969 for PB-1 pipe applications. The grade is typically used for under floor heating or surface cooling applications. *Akoafloor* PB R 509 is available in brown colour in pellet form.

Akoafloor PB R 509 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	Underfloor Heating
Market	Industrial, Building & Construction; Pipe
Processing Method	Pipe; Sheet
Attribute	Good Creep Resistance; Good Flexibility; Good Thermal Stability; Random Copolymer; Weldable

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.70	g/10 min	ISO 1133-1
Density	0.925	g/cm³	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	