

Akoafloor PB R 509 brown

Polybutylene
LyondellBasell Industries

Message:

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.

Akoalit 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.

Akoalit PB R 509 is available in brown colour in pellet form.

Akoalit PB R 509 is not being sold for pipe applications in North America.

The grade is not intended for medical or pharmaceutical applications.

General Information			
Features	Weldable		
	Good creep resistance		
	Good flexibility		
	Thermal stability, good		
	Random copolymer		
Uses	Piping system		
	Architectural application field		
Agency Ratings	DIN 16968		
	DIN 16969		
	ISO 12230		
Appearance	Brown		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 8986-2
Yield, molding	18.0	MPa	ISO 8986-2
Fracture, molding	38.0	MPa	ISO 8986-2
Tensile Strain ² (Break, Compression Molded)	330	%	ISO 8986-2
Flexural Modulus	330	MPa	ISO 178

Injection	Nominal Value	Unit
Processing (Melt) Temp	200 - 240	°C
Extrusion	Nominal Value	Unit
Melt Temperature	175 - 190	°C
Extrusion instructions		
Vacuum: 30 mbar to 60 mbarCooling Water Temperature: 10 to 12°C		
NOTE		

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|----|--------------------------------------|
| 1. | Type IV, Conditioned 10 days at 20°C |
| 2. | Type IV, Conditioned 10 days at 20°C |

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