



Akoalit PB 4268 white

Polybutene-1

Product Description

Akoalit PB 4268 white is a premium highly isotactic polyolefin manufactured from butene-1 monomer. The product provides excellent long term hydrostatic strength also at elevated temperatures combined with high flexibility.

Akoalit PB 4268 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 4268 is available in white colour in pellet form.

Akoalit PB 4268 is not being sold for pipe applications in North America.

The grade is not intended for medical or pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Pipe Sheet and Semi Finished Products
Features	Good Creep Resistance , Good Flexibility, Homopolymer, Good Organoleptic Properties , Good Thermal Stability, Weldable
Typical Customer Applications	Building and Construction, District Heating, Drinking Water Pipe, Industrial, Radiator Connections, Underfloor Heating

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.925	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.60	g/10 min
Mechanical			
Flexural modulus	ISO 178	450	MPa
Tensile Strength at Yield (Compression molded plaques, Type IV spec)	ISO 8986-2	20	MPa
Tensile Strength at Break (Compression molded plaques, Type IV spec)	ISO 8986-2	35	MPa
Tensile Elongation at Break (Compression molded plaques, Type IV spec)	ISO 8986-2	300	%
<i>Note: Measured on specimens conditioned for 10 days at 20°C</i>			

Additional Properties

Recommended processing parameters:

Extrusion temperature: 180 °C - 200 °C

Vacuum: 30 mbar - 60 mbar

Cooling water temperature: 10 °C - 12 °C

Injection moulding temperature: 200 °C - 240 °C

Notes

Typical properties; not to be construed as specifications.