

Technical Data Sheet

Akoafloor PB R509 CAMEL



Polybutene-1

Product Description

Akoafloor PB R 509 CAMEL 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.

Akoafloor PB R 509 CAMEL 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 CAMEL is available in camel colour in pellet form.

Akoafloor PB R 509 CAMEL 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.

Regulatory Status

For regulatory compliance information, see *Akoafloor* PB R509 CAMEL [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

This grade is not intended for medical and pharmaceutical applications.

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| Status | Commercial: Active |
| Availability | Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; South & Central America |
| Application | Underfloor Heating |
| Market | Industrial, Building & Construction; Pipe |
| Processing Method | Pipe; Sheet |
| Attribute | Good Creep Resistance; Good Flexibility; Good Thermal Stability; Random Copolymer; Weldable |

| Typical Properties | Nominal 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/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 |
| Processing Parameters | | | |
| Extrusion Temperature | 175-190 | °C | |
| Injection Moulding Temperature | 200-240 | °C | |
| Cooling Water Temperature | 10-12 | °C | |
| Vacuum | 30-60 | mbar | |

Notes

These are typical property values not to be construed as specification limits.