Technical Data Sheet

Koattro PB 0800M

Polybutene-1

Product Description

Polybutene-1 grade *Koattro* PB0800M is a semi-crystalline homopolymer, which can be used where creep and environmental stress crack resistance and elevated temperature performance are key requirements.

This polymer is highly compatible with polypropylene due to its similar molecular structure. It can be used to improve mechanical properties at elevated temperatures. It is less compatible in blends with polyethylene but it is still easily dispersible.

It's relative slow crystalliation kinetics allows for an excellent wetting behaviour. Besides their high shear sensitive flow behaviour they remain easily dispersible also in even more incompatible polymers like thermoplastic elastomers.

Regulatory Status

For regulatory compliance information, see *Koattro* PB 0800M Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

This grade is not intended for medical and pharmaceutical applications.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Colour Concentrates; Products for Use in Property Modification
Market	Industrial, Building & Construction; Textile
Processing Method	Melt Blown; Spunbond; Staple Fiber
Attribute	Good Thermal Stability; High Flow; Homopolymer; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	200	g/10 min	ISO 1133-1
Density	0.915	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	410	MPa	ISO 178
Tensile Strength at Break	30	MPa	ISO 8986-2
Tensile Elongation at Break	300	%	ISO 8986-2
Thermal			
Melting Temperature			
Tm1	124	°C	ISO 11357-3
Tm2	112	°C	ISO 11357-3

Tm2 corresponds with the melting point of crystalline form 2 which is measured immediately after solidification.
Tm2 corresponds with the melting point available for each batch on the Certificate of Analysis (COA).

Notes

Mechanical properties are measured on specimens conditioned for 10 days at 23°C