Technical Data Sheet

Koattro PB M 8510M

Polybutene-1

Product Description

Polybutene-1 grade *Koattro* PB M 8510M is a random copolymer of butene-1 with high ethylene content.

Koattro PB M 8510M is primarily used as a blend component in woodworking and assembly hot melt adhesive formulations. It can be used in combination with a wide variety of non-polar resins and waxes and maintains good cohesive strength of the HMA and higher Shear Adhesion Failure Temperature (SAFT).

Koattro PB M 8510M is also used to improve rheological properties in blends. It is highly compatible with polypropylene due to its similar structure. *Koattro* PB M 8510M is less compatible but still easily dispersible in blends with polyethylene. Its relatively slow kinetics of crystallization allow for an excellent wetting behavior. Its high shear-sensitive flow behavior means that it remains easily dispersible also in even more incompatible polymers like thermoplastic elastomers.

Koattro PB M 8510M can also be used in Spunbond applications offering reduced bonding temperature.

This grade is not intended for medical and pharmaceutical applications.

Application	Hot Melt Adhesives; Hygiene Nonwoven; Polymer Modifier
Market	Compounding; Textile
Processing Method	Continuous Filament/Spinning; Fibers; Spunbond; Staple Fiber
Attribute	Extended Open Time; Good Adhesion; Good Thermal Stability

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	45	g/10 min	ISO 1133-1
Density	0.897	g/cm³	ISO 1183-1
Brookfield Viscosity, (190 °C)	230600	mPa·s	ASTM D3236
Mechanical			
Flexural Modulus	120	MPa	ISO 178
Tensile Strength at Break	25	MPa	ISO 8986-2
Tensile Elongation at Break	300	%	ISO 8986-2
Thermal			
Melting Temperature			
Tm1	94	°C	ISO 11357-3
Tm2	81	°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).