

Technical Data Sheet

Koattro PB M 8911M



Polybutene-1

Product Description

Polybutene-1 grade *Koattro* PB M 8911M is a random copolymer of butene-1 with high ethylene content.

Koattro PB M 8911M 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 8911M is also used to improve rheological properties in blends. It is highly compatible with polypropylene due to its similar structure. *Koattro* PB M 8911M 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 8911M can also be used in Melt Blown and Spunbond applications offering reduced bonding temperature and improved softness.

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)	200	g/10 min	ISO 1133-1
Density	0.895	g/cm ³	ISO 1183-1
Brookfield Viscosity, (190 °C)	46600	mPa·s	ASTM D3236
Mechanical			
Tensile Modulus, (23 °C)	100	MPa	ISO 527-1, -2
Thermal			
Melting Temperature			
Tm1	93	°C	ISO 11357-3
Tm2	82	°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).