



Polybutene-1 PB 1600M

Polybutene-1

Product Description

Polybutene-1 grade **PB 1600M** is a formulated random copolymer of butene-1 with low ethylene content and contains both slip and antiblock.

In blends with PE polymers, it forms a separate, but well-dispersed phase. Its primary use is as a minority blend component in the seal layer of easy-opening packaging films, produced by blown film extrusion. A typical PE blend partner for **PB 1600M** could be any ethylene homo-or copolymer in the melt index range of 0.5 to 2.0 g/10min.

PB-1 crystallizes slowly and is very shear sensitive in its flow behavior.

Food law compliance information about this product can be found in separate product documentation.

This product is not intended for use in medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	North America
Typical Customer Applications	Blown Film, Peelable Film, Speciality Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.913	g/cm ³
Melt flow rate (MFR)	ISO 1133		
(190°C/2.16kg)		1	g/10 min
(190°C/10kg)		30	g/10 min
Mechanical			
Flexural modulus	ISO 178	250	MPa
Tensile Strength at Break	ISO 8986-2	30	MPa
Tensile Elongation at Break	ISO 8986-2	300	%
<i>Note: Measured on specimens conditioned for 10 days at 20°C</i>			
Thermal			
Melting temperature	DSC		
		115	°C
<i>Note: Tm1</i>		97	°C
<i>Note: Tm2</i>			

Additional Properties

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).

Recommended processing temperatures: 180°C to 200°C. In cases were higher temperatures are required please contact your appropriate technical contact for support.

Notes

Typical properties; not to be construed as specifications.