

Technical Data Sheet

Toppy/PB 8340M



Polybutene-1

Product Description

Polybutene-1 (PB-1) grade *Toppy*/PB 8340M is a random copolymer of butene-1 with low ethylene content.

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 cast film extrusion.

A typical PE blend partner for *Toppy*/PB 8340M could be any ethylene homo-or copolymer in the melt index range of 2.0 to 8.0 g/10min.

PB-1 is also highly compatible with polypropylene due to its similar molecular structure, and it can be used to modify PP sealing behavior or mechanical properties such as impact strength.

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

This grade is not intended for medical and pharmaceutical applications.

Application	Bags & Pouches; Food Packaging Film; Lamination Film; Peelable Film; Secondary Packaging; Specialty Film
Market	Flexible Packaging; Rigid Packaging
Processing Method	Blown Film; Cast Film
Attribute	Good Heat Seal; Good Optical Properties; Good Organoleptic Properties; Good Processability

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	4	g/10 min	ISO 1133-1
(190 °C/10.0 kg)	100	g/10 min	ISO 1133-1
Density	0.911	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	270	MPa	ISO 178
Tensile Strength at Break	30	MPa	ISO 8986-2
Tensile Elongation at Break	300	%	ISO 8986-2
Thermal			
Melting Temperature			
Tm1	113	°C	ISO 11357-3
Tm2	97	°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).			