

Technical Data Sheet

Toppy/PB 8640M



Polybutene-1

Product Description

Polybutene-1 (PB-1) grade *Toppy*/PB 8640M 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 blown film extrusion.

A typical PE blend partner for *Toppy*/PB 8640M could be any ethylene homo-or copolymer in the melt index range of 0.7 to 2.0 g/10min.

Toppy/PB 8640M 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)	1	g/10 min	ISO 1133-1
(190 °C/10.0 kg)	28	g/10 min	ISO 1133-1
Density	0.906	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	250	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).			