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## **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 *Toppyl* 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

	Nominal Value	Units	Test Method
Typical Properties			
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/cm³	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
<b>Thermal</b>			
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).