

## Technical Data Sheet

### Toppyl PB 8310M



Polybutene-1

#### Product Description

Polybutene-1 (PB-1) grade *Toppyl* PB 8310M is a random copolymer of butene-1 with high ethylene content.

This product is primarily used to modify sealing properties or mechanical properties of other polyolefins such as polypropylene or polyethylene.

*Toppyl* PB 8310M is highly compatible with polypropylene due its similar molecular structure. It is less compatible in blends with polyethylene but it is still easily dispersible.

This grade is not intended for medical and pharmaceutical applications.

<b>Application</b>	Peelable Film; Specialty Film
<b>Market</b>	Flexible Packaging; Rigid Packaging
<b>Processing Method</b>	Blown Film; Cast Film
<b>Attribute</b>	Good Heat Seal; Good Optical Properties; Good Organoleptic Properties; Good Processability

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate			
(230 °C/2.16 kg)	10.5	g/10 min	ISO 1133-1
(190 °C/2.16 kg)	3.5	g/10 min	ISO 1133-1
Density	0.897	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Flexural Modulus	120	MPa	ISO 178
Tensile Strength at Break	25	MPa	ISO 8986-2
Tensile Elongation at Break	300	%	ISO 8986-2
<b>Thermal</b>			
Melting Temperature			
Tm1	94	°C	ISO 11357-3
Tm2	81	°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).			