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## **Technical Data Sheet**

## Toppy/PB 0110M

Polybutene-1



## **Product Description**

Polybutene-1 (PB-1) grade *Toppyl* PB 0110M is a semi-crystalline homopolymer, which is used where creep, environmental stress crack resistance and elevated temperature performance are key requirements.

This polymer is highly compatible with polypropylene due to its similar molecular structure. It can be used to improve mechanical properties at elevated temperatures. It is less compatible in blends with polyethylene but it is still easily dispersible. It forms a 2-phase structure which is the basis of seal peel technology for easy-opening packaging applications.

Its relatively slow kinetics of crystallization allow for an excellent wetting behavior. Its highly shear-sensitive flow behavior means that it remains easily dispersible also in even more incompatible polymers like thermoplastic elastomers.

This grade is not intended for medical and pharmaceutical applications.

**Application** Peelable Film; Specialty Film

Market Flexible Packaging; Rigid Packaging

Processing Method Blown Film

Attribute Good Heat Seal; Good Organoleptic Properties; Good Processability

Nominal		
Value	Units	Test Method
0.4	g/10 min	ISO 1133-1
12	g/10 min	ISO 1133-1
0.914	g/cm³	ISO 1183-1
450	MPa	ISO 178
35	MPa	ISO 8986-2
300	%	ISO 8986-2
128	°C	ISO 11357-3
117	°C	ISO 11357-3
	Value  0.4 12 0.914  450 35 300	Value Units  0.4 g/10 min 12 g/10 min 0.914 g/cm³  450 MPa 35 MPa 300 %

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).