



## Polybutene-1 DP 8310M

### Polybutene-1

#### Product Description

Polybutene-1 grade **DP8310M** 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.

**DP 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.

Food law compliance information about this product can be found in separate product documentation.

This product is not intended for use in medical and pharmaceutical applications.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
<b>Typical Customer Applications</b>	Blown Film, Cast Film, Peelable Film, Speciality Film

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.897	g/cm <sup>3</sup>
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	3.5	g/10 min
<b>Mechanical</b>			
Flexural modulus	ISO 178	120	MPa
Tensile Strength at Break	ISO 8986-2	25	MPa
Tensile Elongation at Break	ISO 8986-2	300	%
<i>Note: Measured on specimens conditioned for 10 days at 20°C</i>			
<b>Thermal</b>			
Melting temperature	DSC	94	°C
<i>Note: Tm1</i>			
		81	°C
<i>Note: Tm2</i>			

#### Additional Properties

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).

Recommended processing temperatures: 150°C to 180°C. In cases were higher temperatures are required please contact your appropriate technical contact for support.

#### Notes

Typical properties; not to be construed as specifications.