



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

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

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.897	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	3.5	g/10 min
Mechanical			
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:</i> Measured on specimens conditioned for 10 days at 20°C			
Thermal			
Melting temperature	DSC	94	°C
<i>Note:</i> Tm1		81	°C
<i>Note:</i> Tm2			

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.