

# Polybutene-1 DP 8310M

Polybutylene  
LyondellBasell Industries

Message:

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.

General Information			
Features	Random Copolymer		
Uses	Blown Film		
	Cast Film		
	Film		
	Plastics Modification		
Processing Method	Blown Film		
	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.897	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	25.0	MPa	ISO 527-2
Tensile Strain (Break)	300	%	ISO 527-2
Flexural Modulus	120	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Melting Temperature			DSC
-- 1	81.0	°C	
-- 2	94.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 180	°C	
NOTE			
1.	Tm2		
2.	Tm1		

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