

Polybutene-1 DP 8220M

Polybutylene
LyondellBasell Industries

Message:

Polybutene-1 grade DP 8220M is a random copolymer of butene-1 with medium ethylene content. This grade is highly compatible with polypropylene due to its similar molecular structure, and it is used to modify the sealing behavior of PP-based films - a typical example is its use to reduce the seal initiation temperature of BOPP sealing layers. 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. Food law compliance information about this product can be found in separate product documentation.

General Information			
Features	Rapid wetting		
	Random copolymer		
Uses	Bi-axially Oriented Film		
	Films		
	Mixing		
	Plastic modification		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.901	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/10.0 kg	46	g/10 min	ISO 1133
190°C/2.16 kg	2.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 8986-2
Yield	10.0	MPa	ISO 8986-2
Fracture	32.0	MPa	ISO 8986-2
Tensile Strain ¹ (Break)	300	%	ISO 8986-2
Flexural Modulus	140	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)			DSC
-- ²	85.0	°C	DSC
-- ³	97.0	°C	DSC
Additional Information			
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).			
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 180	°C	
Extrusion instructions			

Recommended processing temperatures: 160°C to 180°C. In cases were higher temperatures are required please contact your appropriate technical contact for support.

NOTE	
1.	Measured on specimens conditioned for 10 days at 20°C
2.	Tm2
3.	Tm1

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