

Polybutene-1 PB 8640M

Polybutylene
LyondellBasell Industries

Message:

Polybutene-1 grade PB 8640M is a random copolymer of butene-1 with low ethylene content. In blends with PE polymers, it forms a separate, but well-dispersed phase. Its primary use is as a minority blend component in the seal layer of easy-opening packaging films, produced by blown film extrusion. A typical PE blend partner for PB 8640M could be any ethylene homo-or copolymer in the melt index range of 0.7 to 2.0 g/10min. Polybutene-1 is also highly compatible with polypropylene due to its similar molecular structure, and it can be used to modify PP sealing behavior or mechanical properties such as impact strength. PB-1 crystallizes slowly and is very shear sensitive in its flow behavior. Food law compliance information about this product can be found in separate product documentation.

General Information			
Features	Comply with ECO		
	Random copolymer		
Uses	Mixing		
	Seals		
	Plastic modification		
Forms	Particle		
Processing Method	Blow film		
	Extrusion blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.906	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/10.0 kg	28	g/10 min	ISO 1133
190°C/2.16 kg	1.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	30.0	MPa	ISO 527-2
Tensile Strain (Break)	300	%	ISO 527-2
Flexural Modulus	250	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)			DSC
-- 1	97.0	°C	DSC
-- 2	113	°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	180 - 200	°C	

Extrusion instructions

Recommended processing temperatures: 180°C to 200°C. In cases where higher temperatures are required please contact your appropriate technical contact for support.

NOTE

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| 1. | Tm2 |
| 2. | Tm1 |

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