

Polybutene-1 PB 0800M

Polybutylene

LyondellBasell Industries

Message:

Polybutene-1 grade PB0800M is a semi-crystalline homopolymer, which can be used where creep and environmental stress crack resistance and elevated temperature performance are key requirements.

This polymer is highly compatible with polypropylene due to its similar molecular structure. It can be used to improve mechanical properties at elevated temperatures. It is less compatible in blends with polyethylene but it is still easily dispersible .

It's relative slow crystalliation kinetics allows for an excellent wetting behaviour. Besides their high shear sensitive flow behaviour they remain easily dispersible also in even more incompatible polymers like thermoplastic elastomers.

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

General Information			
Features	Semicrystallization		
	High ESCR (Stress Cracking Resistance)		
	Homopolymer		
	Rapid wetting		
	Good creep resistance		
Uses	staple fiber		
	Spunbond nonwoven fabric		
	Mixing		
	Color masterbatch		
	Plastic modification		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.915	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	200	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 8986-2
Yield, molding	21.0	MPa	ISO 8986-2
Fracture, molding	30.0	MPa	ISO 8986-2
Tensile Strain ¹ (Break, Compression Molded)	300	%	ISO 8986-2
Flexural Modulus	410	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC) ²	124	°C	DSC
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 230	°C	
Extrusion instructions			

Recommended processing temperatures: 190°C to 230°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.	Tm1

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