



Polybutene-1 PB 0801M

LyondellBasell Industries - Polybutylene

Monday, November 4, 2019

General Information

Product Description

Polybutene-1 grade PB0801M is a semi-crystalline homopolymer, which can be used where creep and environmental stress crack resistance and elevated temperature performance are key requirements.

This polymers unique processing behaviour allows it to use as a processing modifier (internal lubricant) in polyolefins and Thermoplastic elastomeric compounding applications. It can absorb high loads of filler. It allows to be used in masterbatch applications where an excellent pigment dispersion is a key requirement. Finally it is highly appreciated in hot melt adhesive applications for its high cohesive strength and excellent wetting behaviour towards non polar substrates

Foodlaw 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

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High ESCR (Stress Crack Resist.)	• Homopolymer	• Semi Crystalline
Uses	• Adhesives • Color Concentrates • Compounding	• Meltblown Nonwovens • Nonwovens • Plastics Modification	• Spunbond Nonwovens • Staple Fibers
Processing Method	• Compounding		

ASTM & ISO Properties ¹

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 ² (Yield, Compression Molded)	3050	psi	ISO 8986-2
Tensile Stress ² (Break, Compression Molded)	4350	psi	ISO 8986-2
Tensile Strain ² (Break, Compression Molded)	300	%	ISO 8986-2
Flexural Modulus ³	59500	psi	ISO 178
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	259	°F	DSC

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	374 to 446	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type IV, Conditioned for 10 days at 20°C

³ Conditioned for 10 days at 20°C