

## LyondellBasell Montell 8340 Polybutene-1

Category : Polymer , Thermoplastic , Polybutene

**Material Notes:**

**Key Features:** semi-crystalline low ethylene content random copolymer, miscible with polypropylenes, FDA acceptable  
**Applications:** minor additive in a polyethylene peel seal layer  
 Meets FDA requirements in 21 CFR 177.1570 for direct food contact up to 212Â°F

**Description:** Polybutene-1 PB 8340 is a semi-crystalline low ethylene content random copolymer which is miscible with polypropylenes due to its similar molecular structure. In blends with polyethylenes it is immiscible but easily dispersible. This copolymer is used in the packaging industry primarily as a minor additive in a polyethylene seal-peel layer for the production of coextruded flexible film or more rigid sheet. Varying the concentration in the seal-peel layer offers the unique possibility of tailoring the seal strength for controlled easy-opening of peelable seal packaging. This grade is particularly suitable for use in blown film formulations when low heat seal initiation temperatures are required. A typical blend partner is a high density polyethylene with a melt index range between 2 and 8 dg/min. This copolymer meets FDA requirements for direct food contact under regulation 21 CFR 177.1570.  
 Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Montell-8340-Polybutene-1.php](http://www.lookpolymers.com/polymer_LyondellBasell-Montell-8340-Polybutene-1.php)

Physical Properties	Metric	English	Comments
Density	0.908 g/cc	0.0328 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	4.0 g/10 min	4.0 g/10 min	ISO 1133-1981E

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 27.6 MPa	>= 4000 psi	ISO 1184-1983E
Tensile Strength, Yield	11.7 MPa	1700 psi	ISO 1184-1983E
Elongation at Break	>= 350 %	>= 350 %	ISO 1184-1983E
Modulus of Elasticity	0.220 GPa	31.9 ksi	ISO 1184-1983E

Thermal Properties	Metric	English	Comments
Melting Point	126 Â°C	259 Â°F	DSC
Brittleness Temperature	-17.0 Â°C	1.40 Â°F	ASTM D746

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